Systems Biology: A Brief Overview

Science 295, 1662-1664

DOI: 10.1126/science.1069492

Citation Report

#	Article	IF	CITATIONS
1	Systems biology: new frontier for system scientists and control engineers. , 0, , .		0
2	Modeling the Cell's Guidance System. Science Signaling, 2002, 2002, re12-re12.	1.6	63
3	Chapter 19. Expanding and exploring cellular pathways for novel drug targets. Annual Reports in Medicinal Chemistry, 2002, 37 , 187 -196.	0.5	2
4	SYSTEMS BIOLOGY: Life's Complexity Pyramid. Science, 2002, 298, 763-764.	6.0	444
5	Hierarchical Organization of Modularity in Metabolic Networks. Science, 2002, 297, 1551-1555.	6.0	3,764
6	Emerging role of genomics in endometriosis research. Fertility and Sterility, 2002, 78, 694-698.	0.5	73
7	Molecular circuits, biological switches, and nonlinear dose-response relationships Environmental Health Perspectives, 2002, 110, 971-978.	2.8	29
8	Systems biology. , 2002, , 135-176.		1
9	Fast forwarding pharmacogenomics. Pharmacogenomics, 2002, 3, 281-285.	0.6	O
10	Two pathways act in an additive rather than obligatorily synergistic fashion to induce systemic acquired resistance and PR gene expression. BMC Plant Biology, 2002, 2, 9.	1.6	28
11	Bioinformatics for the genomic sciences and towards systems biology. Japanese activities in the post-genome era. Progress in Biophysics and Molecular Biology, 2002, 80, 23-42.	1.4	23
12	How Should Microbial Life be Quantified to Optimise Bioprocesses?. Acta Biotechnologica, 2002, 22, 401-409.	1.0	2
13	The Protein Folds as Platonic Forms: New Support for the Pre-Darwinian Conception of Evolution by Natural Law. Journal of Theoretical Biology, 2002, 219, 325-342.	0.8	51
14	Advances in molecular labeling, high throughput imaging and machine intelligence portend powerful functional cellular biochemistry tools. Journal of Cellular Biochemistry, 2002, 87, 194-210.	1.2	86
15	Looking beyond the details: a rise in system-oriented approaches in genetics and molecular biology. Current Genetics, 2002, 41, 1-10.	0.8	157
16	Yeast genomic databases and the challenge of the post-genomic era. Functional and Integrative Genomics, 2002, 2, 212-237.	1.4	19
17	A transcription factor response element for gene expression during circadian night. Nature, 2002, 418, 534-539.	13.7	794
18	Metabolic network structure determines key aspects of functionality and regulation. Nature, 2002, 420, 190-193.	13.7	712

#	Article	IF	Citations
19	The heteromeric cyclic nucleotide-gated channel adopts a 3A:1B stoichiometry. Nature, 2002, 420, 193-198.	13.7	238
20	Computational systems biology. Nature, 2002, 420, 206-210.	13.7	1,991
21	The community of the self. Nature, 2002, 420, 246-251.	13.7	191
22	Standards for modeling. Nature Biotechnology, 2002, 20, 337-337.	9.4	12
23	The many faces of tumor necrosis factor in stroke. Nature Medicine, 2002, 8, 1363-1368.	15.2	358
24	Interpretation of the complexity of innate immune responses by functional genomics. Nature Reviews Immunology, 2002, 2, 881-888.	10.6	105
25	Ligand-Dependent Regulation of T Cell Development and Activation. Immunologic Research, 2003, 27, 277-286.	1.3	12
26	First step towards a quantitative model describing Czc-mediated heavy metal resistance in Ralstonia metallidurans. Biodegradation, 2003, 14, 153-168.	1.5	51
27	A Modeling Approach to the Human Spatial Orientation System. Annals of the New York Academy of Sciences, 2003, 1004, 303-315.	1.8	25
28	A Systems Theory for Chemistry. Foundations of Chemistry, 2003, 5, 23-41.	0.4	18
29	A case for service systems engineering. Journal of Systems Science and Systems Engineering, 2003, 12, 13-38.	0.8	184
30	Conformational constraints on side chains in protein residues increase their information content. Cellular and Molecular Life Sciences, 2003, 60, 2526-2531.	2.4	9
31	Computational modeling of the EGF-receptor system: a paradigm for systems biology. Trends in Cell Biology, 2003, 13, 43-50.	3.6	328
32	BioSig: an informatics framework for representing the physiological responses of living cells. Biosilico, 2003, 1, 42-46.	0.5	1
33	CellDesigner: a process diagram editor for gene-regulatory and biochemical networks. Biosilico, 2003, 1, 159-162.	0.5	562
34	Advancing drug discovery through systems biology. Drug Discovery Today, 2003, 8, 175-183.	3.2	95
35	In silico multicellular systems biology and minimal genomes. Drug Discovery Today, 2003, 8, 1121-1127.	3.2	17
36	Quantitative cell biology with the Virtual Cellâ [†] . Trends in Cell Biology, 2003, 13, 570-576.	3.6	261

#	Article	IF	CITATIONS
37	Cyanobacterial postgenomic research and systems biology. Trends in Biotechnology, 2003, 21, 504-511.	4.9	61
38	Biochemical engineering: cues from cells. Trends in Biotechnology, 2003, 21, 204-209.	4.9	13
39	From biological databases to platforms for biomedical discovery. Trends in Biotechnology, 2003, 21, 263-268.	4.9	25
40	On the complete determination of biological systems. Trends in Biotechnology, 2003, 21, 251-254.	4.9	47
41	Outsourcing in the brain: Do neurons depend on cholesterol delivery by astrocytes?. BioEssays, 2003, 25, 72-78.	1.2	271
42	Identifying constraints that govern cell behavior: a key to converting conceptual to computational models in biology?. Biotechnology and Bioengineering, 2003, 84, 763-772.	1.7	76
43	Kinetic simulation of signal transduction system in hippocampal long-term potentiation with dynamic modeling of protein phosphatase 2A. Neural Networks, 2003, 16, 1389-1398.	3.3	27
44	Dynamic responses of protein homeostatic regulatory mechanisms to perturbations from steady state. Journal of Theoretical Biology, 2003, 222, 407-423.	0.8	11
45	How robust are switches in intracellular signaling cascades?. Journal of Theoretical Biology, 2003, 225, 293-300.	0.8	67
46	Interdisciplinary sciences in the 21st century. Current Opinion in Biotechnology, 2003, 14, 328-331.	3.3	9
47	Co-operative interactions control conjugative transfer of broad host-range plasmid RK2: full effect of minor changes in TrbA operator depends on KorB. Molecular Microbiology, 2003, 49, 1095-1108.	1.2	19
48	Restricting restriction. Molecular Microbiology, 2003, 51, 3-5.	1.2	22
49	The value of an emergent notion of authenticity: Examples from two student/teacher-scientist partnership programs. Journal of Research in Science Teaching, 2003, 40, 737-756.	2.0	92
50	From genomics to proteomics. Nature, 2003, 422, 193-197.	13.7	886
51	Parallel analysis of transcript and metabolic profiles: a new approach in systems biology. EMBO Reports, 2003, 4, 989-993.	2.0	308
52	Gene expression meets genetics. Nature, 2003, 422, 269-270.	13.7	50
53	Developing countries and systems biology. Nature Biotechnology, 2003, 21, 491-492.	9.4	0
54	A genome-wide view of antisense. Nature Biotechnology, 2003, 21, 492-492.	9.4	7

#	Article	IF	CITATIONS
55	Delivering zinc fingers. Nature Biotechnology, 2003, 21, 492-493.	9.4	4
56	Evolutionary conservation of motif constituents in the yeast protein interaction network. Nature Genetics, 2003, 35, 176-179.	9.4	414
57	Target discovery. Nature Reviews Drug Discovery, 2003, 2, 831-838.	21.5	304
58	Target selection in drug discovery. Nature Reviews Drug Discovery, 2003, 2, 63-69.	21.5	195
59	Nutrigenomics: goals and strategies. Nature Reviews Genetics, 2003, 4, 315-322.	7.7	566
60	Studying complex biological systems using multifactorial perturbation. Nature Reviews Genetics, 2003, 4, 145-151.	7.7	163
61	Towards an e-biology of ageing: integrating theory and data. Nature Reviews Molecular Cell Biology, 2003, 4, 243-249.	16.1	86
62	Integration from proteins to organs: the Physiome Project. Nature Reviews Molecular Cell Biology, 2003, 4, 237-243.	16.1	411
63	Feedback Control in Intracellular Signaling Pathways: Regulating Chemotaxis in Dictyostelium Discoideum. European Journal of Control, 2003, 9, 227-236.	1.6	23
64	Review: Metabolome characterisation in plant system analysis. Functional Plant Biology, 2003, 30, 111.	1.1	63
65	Metabolic networks of microbial systems. Microbial Cell Factories, 2003, 2, 3.	1.9	6
66	The systems biology markup language (SBML): a medium for representation and exchange of biochemical network models. Bioinformatics, 2003, 19, 524-531.	1.8	2,811
67	Cell volume and insulin signaling. International Review of Cytology, 2003, 225, 187-228.	6.2	45
68	Artificial life: organization, adaptation and complexity from the bottom up. Trends in Cognitive Sciences, 2003, 7, 505-512.	4.0	150
69	A natural class of robust networks. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8710-8714.	3.3	225
70	FluxAnalyzer: exploring structure, pathways, and flux distributions in metabolic networks on interactive flux maps. Bioinformatics, 2003, 19, 261-269.	1.8	187
71	Bioinformatics: Organisms from Venus, Technology from Jupiter, Algorithms from Mars. European Journal of Control, 2003, 9, 237-278.	1.6	10
72	Functional Genomics and the Comparative Physiology of Hypoxia. Annual Review of Physiology, 2003, 65, 203-230.	5.6	42

#	Article	IF	CITATIONS
73	Functional genomics and proteomics as a foundation for systems biology. Briefings in Functional Genomics & Proteomics, 2003, 2, 175-184.	3.8	73
74	MATHEMATICS: Chaos: Useful at Last?. Science, 2003, 301, 1192-1193.	6.0	38
75	Systems biology. IEEE Control Systems, 2003, 23, 38-48.	1.0	24
76	Systematic discovery of multicomponent therapeutics. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7977-7982.	3.3	551
77	Building Integrated Models of Plant Growth and Development. Plant Physiology, 2003, 132, 436-439.	2.3	22
78	Distinguished Service Award: Evolution of Toxicology for Risk Assessment. International Journal of Toxicology, 2003, 22, 3-7.	0.6	23
79	How can we know the dancer from the dance?. Anthropological Theory, 2003, 3, 5-26.	1.9	80
80	Pharmacogenetics and Responders to a Therapy: Theoretical Background and Practical Problems. Clinical Chemistry and Laboratory Medicine, 2003, 41, 564-72.	1.4	6
81	Identification of nucleocytoplasmic cycling as a remote sensor in cellular signaling by databased modeling. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1028-1033.	3.3	336
82	The connectivity structure, giant strong component and centrality of metabolic networks. Bioinformatics, 2003, 19, 1423-1430.	1.8	370
83	Genome Informatics. Circulation Research, 2003, 92, 953-961.	2.0	43
84	CADLIVE for constructing a large-scale biochemical network based on a simulation-directed notation and its application to yeast cell cycle. Nucleic Acids Research, 2003, 31, 4071-4084.	6.5	69
85	A Systems Approach to the COP9 Signalosome. Plant Physiology, 2003, 132, 426-427.	2.3	3
86	Molecular imaging in living subjects: seeing fundamental biological processes in a new light. Genes and Development, 2003, 17, 545-580.	2.7	1,954
87	Phenolic Antioxidant Biosynthesis in Plants for Functional Food Application: Integration of Systems Biology and Biotechnological Approaches. Food Biotechnology, 2003, 17, 67-97.	0.6	50
88	Manipulation of Self-Aggregation Patterns and Waves in a Reaction-Diffusion System by Optimal Boundary Control Strategies. Physical Review Letters, 2003, 91, 208301.	2.9	39
89	Allosteric Interactions and Bifunctionality Make the Response of Glutamine Synthetase Cascade System of Escherichia coli Robust and Ultrasensitive. Journal of Biological Chemistry, 2003, 278, 26327-26332.	1.6	29
91	Achieving the in Silico Plant. Systems Biology and the Future of Plant Biological Research. Plant Physiology, 2003, 132, 404-409.	2.3	77

#	Article	IF	CITATIONS
92	Towards a Modeling Infrastructure for Studying Plant Cells. Plant Physiology, 2003, 132, 410-414.	2.3	26
93	EVOLUTIONARY DESIGN OF GENETIC CIRCUITS AND CELL-CELL COMMUNICATIONS. International Journal of Modeling, Simulation, and Scientific Computing, 2003, 06, 37-45.	0.9	26
94	Pleiotropy, Homeostasis, and Functional Networks Based on Assays of Cardiovascular Traits in Genetically Randomized Populations. Genome Research, 2003, 13, 2082-2091.	2.4	67
95	The self-organized phase of bulk P x Se 1 â^' x glasses. Europhysics Letters, 2003, 62, 49-55.	0.7	42
96	Modeling and control of intracellular processes. , 0, , .		0
97	Design environments for complex systems. , 0, , .		1
98	Does Racism Harm Health? Did Child Abuse Exist Before 1962? On Explicit Questions, Critical Science, and Current Controversies: An Ecosocial Perspective. American Journal of Public Health, 2003, 93, 194-199.	1.5	259
99	Analysis and modelling of signal transduction pathways in systems biology. Biochemical Society Transactions, 2003, 31, 1503-1509.	1.6	59
100	Reconstructing gene networks: what are the limits?. Biochemical Society Transactions, 2003, 31, 1519-1525.	1.6	25
101	Tailoring Biomaterial Compatibility: In Vivo Tissue Response versus in Vitro Cell Behavior. International Journal of Artificial Organs, 2003, 26, 1077-1085.	0.7	122
102	Trace Element Biology: The Knowledge Base and its Application for the Nutrition of Individuals and Populations. Journal of Nutrition, 2003, 133, 1581S-1587S.	1.3	21
103	Reflections on an Arranged Marriage between Bioinformatics and Health Informatics. Methods of Information in Medicine, 2003, 42, 116-120.	0.7	10
104	Computational approach towards challenges in the post-genomic era. Yearbook of Medical Informatics, 2003, 12, 621-624.	0.8	0
106	Proteomics: A Post-Genomic Platform for Drug Discovery and Development., 0,, 359-390.		0
107	Genomics and homeostasis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R611-R627.	0.9	41
108	Towards Sorting of Biolibraries Using Single-Molecule Fluorescence Detection Techniques. Current Pharmaceutical Biotechnology, 2004, 5, 173-179.	0.9	8
110	Modelling and identification of transcription-factor binding motifs in human chondrogenesis. IET Systems Biology, 2004, 1, 85-92.	2.0	4
111	Proteomic Informatics. International Review of Neurobiology, 2004, 61, 127-157.	0.9	10

#	Article	IF	Citations
112	Proteomics Studies of Traumatic Brain Injury. International Review of Neurobiology, 2004, 61, 215-240.	0.9	29
113	Systems literature analysis. Pharmacogenomics, 2004, 5, 943-947.	0.6	15
114	Nonmonotonic Dose-Response Relationships: Mechanistic Basis, Kinetic Modeling, and Implications for Risk Assessment. Toxicological Sciences, 2004, 77, 151-157.	1.4	217
115	Simulation and sensitivity analysis of phosphorylation of EGFR signal transduction pathway in PC12 cell model. IET Systems Biology, 2004, 1, 213-221.	2.0	19
116	Combining analysis and synthesis in a model of a biological cell. , 2004, , .		3
117	Linear systems approach to analysis of complex dynamic behaviours in biochemical networks. IET Systems Biology, 2004, 1, 149-158.	2.0	33
118	External optimal control of self-organisation dynamics in a chemotaxis reaction diffusion system. IET Systems Biology, 2004, 1, 222-229.	2.0	20
119	Manipulation of surface reaction dynamics by global pressure and local temperature control: A model study. Physical Review E, 2004, 70, 051609.	0.8	8
120	Dynamic pathway modeling of sphingolipid metabolism. , 2004, 2004, 2913-6.		7
121	Methods for the Differential Integrative Omic Analysis of Plasma from a Transgenic Disease Animal Model. OMICS A Journal of Integrative Biology, 2004, 8, 267-288.	1.0	38
122	Stem cell bioengineering for regenerative medicine. Expert Opinion on Biological Therapy, 2004, 4, 631-644.	1.4	14
123	Cue-Signal-Response Analysis of TNF-Induced Apoptosis by Partial Least Squares Regression of Dynamic Multivariate Data. Journal of Computational Biology, 2004, 11, 544-561.	0.8	106
124	Integrative Biological Analysis of the APOE*3-Leiden Transgenic Mouse. OMICS A Journal of Integrative Biology, 2004, 8, 3-13.	1.0	108
125	Mathematical modeling reveals threshold mechanism in CD95-induced apoptosis. Journal of Cell Biology, 2004, 166, 839-851.	2.3	301
126	Minimal cut sets in biochemical reaction networks. Bioinformatics, 2004, 20, 226-234.	1.8	239
127	Towards dissecting nutrient metabolism in plants: a systems biology case study on sulphur metabolism. Journal of Experimental Botany, 2004, 55, 1861-1870.	2.4	114
128	Challenges and prospects in the analysis of large-scale gene expression data. Briefings in Bioinformatics, 2004, 5, 313-327.	3.2	19
129	Representing intestinal drug transport in silico: an agent-oriented approach., 2004, 2006, 770-3.		1

#	Article	IF	CITATIONS
130	Molecular targets in immune-mediated diseases: focus on rheumatoid arthritis. Expert Opinion on Therapeutic Targets, 2004, 8, 375-390.	1.5	3
131	Biomedical Informatics Methods in Pharmacogenomics. , 2005, 108, 459-486.		4
132	Metabolic Syndrome and Robustness Tradeoffs. Diabetes, 2004, 53, S6-S15.	0.3	121
133	Human ORFeome Version 1.1: A Platform for Reverse Proteomics. Genome Research, 2004, 14, 2128-2135.	2.4	208
134	Regulatory circuit design and evolution using phage Â. Genes and Development, 2004, 18, 2086-2094.	2.7	34
135	Universality and flexibility in gene expression from bacteria to human. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3765-3769.	3.3	139
137	Analyzing Cellular Biochemistry in Terms of Molecular Networks. Annual Review of Biochemistry, 2004, 73, 1051-1087.	5.0	133
138	Closed-Loop Learning Control of Bio-Networks. Journal of Computational Biology, 2004, 11, 642-659.	0.8	4
139	Use of Antisense Oligonucleotides in Functional Genomics and Target Validation. Oligonucleotides, 2004, 14, 49-64.	2.7	35
140	Evolving a lingua franca and associated software infrastructure for computational systems biology: the Systems Biology Markup Language (SBML) project. IET Systems Biology, 2004, 1, 41-53.	2.0	187
141	CSB.DB: a comprehensive systems-biology database. Bioinformatics, 2004, 20, 3647-3651.	1.8	152
142	Bayesian modeling of protein interaction networks. AIP Conference Proceedings, 2004, , .	0.3	0
143	Systems analysis of digoxin kinetics and inotropic response in the rat heart: effects of calcium and KB-R7943. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H1857-H1867.	1.5	9
144	Synergistic activation of signalling to extracellular signal-regulated kinases 1 and 2 by epidermal growth factor and $4\hat{l}^2$ -phorbol 12-myristate 13-acetate. FEBS Journal, 2004, 271, 3905-3913.	0.2	15
145	Principles behind the multifarious control of signal transduction. FEBS Journal, 2004, 272, 244-258.	2.2	135
146	Nanoinfusion: an integrating tool to study elicitor perception and signal transduction in intact leaves. New Phytologist, 2004, 161, 595-606.	3.5	14
147	Cancer as a robust system: implications for anticancer therapy. Nature Reviews Cancer, 2004, 4, 227-235.	12.8	412
148	Biological robustness. Nature Reviews Genetics, 2004, 5, 826-837.	7.7	1,937

#	Article	IF	CITATIONS
149	The evolution of molecular biology. EMBO Reports, 2004, 5, 546-549.	2.0	29
150	Reductionism and complexity in molecular biology. EMBO Reports, 2004, 5, 1016-1020.	2.0	285
151	Integrating high-throughput and computational data elucidates bacterial networks. Nature, 2004, 429, 92-96.	13.7	796
152	High throughput gene expression profiling: a molecular approach to integrative physiology. Journal of Physiology, 2004, 554, 22-30.	1.3	40
153	Metabolomics by numbers: acquiring and understanding global metabolite data. Trends in Biotechnology, 2004, 22, 245-252.	4.9	1,156
154	Nutrigenomics:. Nutrition, 2004, 20, 4-8.	1.1	72
155	Chronopharmaceutics: gimmick or clinically relevant approach to drug delivery?. Journal of Controlled Release, 2004, 98, 337-353.	4.8	152
156	Blue skies or stormy weather: what lies ahead for malaria research?. Trends in Parasitology, 2004, 20, 611-614.	1.5	1
157	Integrated analysis of metabolic phenotypes in Saccharomyces cerevisiae. BMC Genomics, 2004, 5, 63.	1.2	52
158	Systems biology. Current Biology, 2004, 14, R179-R180.	1.8	18
159	Toward Computational Systems Biology. Cell Biochemistry and Biophysics, 2004, 40, 167-184.	0.9	45
160	The Computational Integrated Myocyte: A View into the Virtual Heart. Annals of the New York Academy of Sciences, 2004, 1015, 391-404.	1.8	14
161	Perturbations of malate accumulation and the endogenous rhythms of gas exchange in the Crassulacean acid metabolism plant Kalancho� daigremontiana: testing the tonoplast-as-oscillator model. Planta, 2004, 219, 705-13.	1.6	36
162	Evolutionarily conserved modules in actin nucleation: lessons from Dictyostelium discoideum and plants. Protoplasma, 2004, 224, 15-31.	1.0	27
163	Genomic and mechanistic insights into the biodegradation of organic pollutants. Current Opinion in Biotechnology, 2004, 15, 215-224.	3.3	113
164	The use of enzyme mixtures for complex biosyntheses. Current Opinion in Biotechnology, 2004, 15, 449-455.	3.3	3
165	A computational algebra approach to the reverse engineering of gene regulatory networks. Journal of Theoretical Biology, 2004, 229, 523-537.	0.8	215
166	Multi-scale modelling and the IUPS physiome project. Journal of Molecular Histology, 2004, 35, 707-714.	1.0	32

#	Article	IF	CITATIONS
167	The number of protein folds and their distribution over families in nature. Proteins: Structure, Function and Bioinformatics, 2004, 54, 491-499.	1.5	65
168	Here is the evidence, now what is the hypothesis? The complementary roles of inductive and hypothesis-driven science in the post-genomic era. BioEssays, 2004, 26, 99-105.	1.2	451
169	Stem cells as probabilistic self-producing entities. BioEssays, 2004, 26, 1013-1016.	1.2	10
170	Fermentative Production of Chemicals That Can Be Used for Polymer Synthesis. Macromolecular Bioscience, 2004, 4, 157-164.	2.1	91
171	A Spectrum of Models of Signaling Pathways. ChemBioChem, 2004, 5, 1365-1374.	1.3	31
172	The First International Workshop on Systems Biology of Yeast, St. Louis, USA, 9 November, 2003. FEMS Yeast Research, 2004, 4, 757-758.	1.1	1
173	Taming the complexity of biochemical models through bisimulation and collapsing: theory and practice. Theoretical Computer Science, 2004, 325, 45-67.	0.5	27
174	Large-scale simulations of cellular signaling processes. Parallel Computing, 2004, 30, 1137-1149.	1.3	10
175	Fitness for synchronization of network motifs. Physica A: Statistical Mechanics and Its Applications, 2004, 343, 279-287.	1.2	63
176	A framework for whole-cell mathematical modeling. Journal of Theoretical Biology, 2004, 231, 581-596.	0.8	21
177	The role of analytical sciences in medical systems biology. Current Opinion in Chemical Biology, 2004, 8, 559-565.	2.8	256
178	Genome data mining of lactic acid bacteria: the impact of bioinformatics. Current Opinion in Biotechnology, 2004, 15, 105-115.	3.3	63
179	Responding to directional cues: a tale of two cells [biochemical signaling pathways]. IEEE Control Systems, 2004, 24, 77-90.	1.0	10
180	Mathematical Modeling of Complex Regulatory Networks. IEEE Transactions on Nanobioscience, 2004, 3, 172-179.	2.2	23
181	Large-scale simulations of Eukaryotic cell signaling processes. , 0, , .		0
182	The Two Ts: Teaching and Technology. American Biology Teacher, 2004, 66, 506-510.	0.1	3
183	A systems view of mRNP biology. Genes and Development, 2004, 18, 2845-2860.	2.7	137
184	Primer on Medical Genomics Part XIV: Introduction to Systems Biology—A New Approach to Understanding Disease and Treatment. Mayo Clinic Proceedings, 2004, 79, 651-658.	1.4	72

#	Article	IF	CITATIONS
185	Connectivities and Synchronous Firing in Cortical Neuronal Networks. Physical Review Letters, 2004, 93, 088101.	2.9	31
186	Symbolic Systems Biology: Hybrid Modeling and Analysis of Biological Networks. Lecture Notes in Computer Science, 2004, , 660-672.	1.0	46
187	Multisite Phosphorylation and Network Dynamics of Cyclin-Dependent Kinase Signaling in the Eukaryotic Cell Cycle. Biophysical Journal, 2004, 86, 3432-3443.	0.2	43
188	A Nanosensor for Transmembrane Capture and Identification of Single Nucleic Acid Molecules. Biophysical Journal, 2004, 87, 615-621.	0.2	156
189	Cancer immunotherapy: avoiding the road to perdition. Journal of Translational Medicine, 2004, 2, 26.	1.8	20
190	Phenotype Characterisation Using Integrated Gene Transcript, Protein and Metabolite Profiling. Applied Bioinformatics, 2004, 3, 205-217.	1.7	60
191	Systems Biology and New Technologies Enable Predictive and Preventative Medicine. Science, 2004, 306, 640-643.	6.0	977
193	Robustness of Cellular Functions. Cell, 2004, 118, 675-685.	13.5	930
194	Genomics in the immune system. Clinical Immunology, 2004, 111, 175-185.	1.4	23
195	Comparative genomics: the evolutionary history of the Bcl-2 family. Gene, 2004, 333, 71-79.	1.0	77
196	Bioinformatics and Systems Biology, rapidly evolving tools for interpreting plant response to global change. Field Crops Research, 2004, 90, 117-131.	2.3	11
197	Genomics view of gonadotrope signaling circuits. Trends in Endocrinology and Metabolism, 2004, 15, 331-338.	3.1	42
198	A walk-through of the yeast mating pheromone response pathway. Peptides, 2004, 25, 1465-1476.	1.2	236
199	Role of crop physiology in predicting gene-to-phenotype relationships. Trends in Plant Science, 2004, 9, 426-432.	4.3	215
200	Mathematical models in microbial systems biology. Current Opinion in Microbiology, 2004, 7, 513-518.	2.3	145
201	Finding Kinetic Parameters Using Text Mining. OMICS A Journal of Integrative Biology, 2004, 8, 131-152.	1.0	47
202	Toward a Systems Approach to Understanding Plant Cell Walls. Science, 2004, 306, 2206-2211.	6.0	1,090
203	From DNA to transistors. Advances in Physics, 2004, 53, 441-496.	35.9	96

#	Article	IF	Citations
204	The Use of Hybrid Cellular Automaton Models for Improving Cancer Therapy. Lecture Notes in Computer Science, 2004, , 444-453.	1.0	44
205	Plant functional genomics: opportunities in microarray databases and data mining. Functional Plant Biology, 2004, 31, 295.	1.1	9
206	Genetics, Individuality, and Medicine in the 21st Century**Previously presented at the annual meeting of The American Society of Human Genetics, in Los Angeles, on November 5, 2003 American Journal of Human Genetics, 2004, 74, 374-381.	2.6	20
207	A Nonlinear Discrete Dynamical Model for Transcriptional Regulation: Construction and Properties. Biophysical Journal, 2004, 86, 1922-1945.	0.2	46
208	Mathematical models of the acute inflammatory response. Current Opinion in Critical Care, 2004, 10, 383-390.	1.6	111
209	Charting gene regulatory networks: strategies, challenges and perspectives. Biochemical Journal, 2004, 381, 1-12.	1.7	73
210	An EA framework for biclustering of gene expression data., 0, , .		62
211	Analyzing the Biology on the System Level. Genomics, Proteomics and Bioinformatics, 2004, 2, 6-14.	3.0	8
212	Integration of Biological Systems Content into the Process Dynamics and Control Curriculum. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 467-474.	0.4	1
213	A Systems Approach to Modeling and Analyzing Biological Regulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 11-22.	0.4	1
214	Autonomous Mobile Robot Control Based on White Blood Cell Chemotaxis. Lecture Notes in Computer Science, 2005, , 9-19.	1.0	3
215	Genomics: Toward a Genome-Level Understanding of the Structure, Functions, and Evolution of Biological Systems., 2005,, 1-19.		0
217	DEALING WITH BIO- AND ECOLOGICAL COMPLEXITY: CHALLENGES AND OPPORTUNITIES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 103-114.	0.4	0
218	Understanding Complex Regulatory Systems: Integrating Molecular Biology and Systems Analysis. Transfusion Medicine and Hemotherapy, 2005, 32, 304-321.	0.7	9
219	A perspective on DNA microarray technology in food and nutritional science. Current Opinion in Clinical Nutrition and Metabolic Care, 2005, 8, 516-522.	1.3	16
220	Interoperability of bioinformatics resources. VINE: the Journal of Information and Knowledge Management Systems, 2005, 35, 132-139.	1.0	2
221	THE ACUTE INFLAMMATORY RESPONSE IN DIVERSE SHOCK STATES. Shock, 2005, 24, 74-84.	1.0	187
222	Systems Biology. , 0, , 491-505.		0

#	Article	IF	CITATIONS
223	Systems Biology: Applications in Drug Discovery. , 2005, , 123-183.		15
224	Discrete Event Multi-level Models for Systems Biology. Lecture Notes in Computer Science, 2005, , 66-89.	1.0	27
226	A modular systems biology analysis of cell cycle entrance into S-phase. Topics in Current Genetics, 2005, , 325-347.	0.7	5
227	Scientific and technical challenges for systems biology. , 0, , 373-385.		2
228	Systems Biotechnology: a New Paradigm in Biotechnology Development., 2005,, 155-177.		1
229	Course 10Modeling, analysis, and simulation of genetic regulatory networks: From differential equations to logical models. Les Houches Summer School Proceedings, 2005, , 325-354.	0.2	0
230	Glucose modulation of cell size in yeast. Biochemical Society Transactions, 2005, 33, 294-296.	1.6	15
231	Systems biology: will it work?. Biochemical Society Transactions, 2005, 33, 503-506.	1.6	10
232	Evaluation of the performance of mechanisms for noise attenuation in a single-gene expression. Journal of Theoretical Biology, 2005, 235, 241-264.	0.8	16
233	A cell-centered approach to developmental biology. Physica A: Statistical Mechanics and Its Applications, 2005, 352, 113-130.	1.2	201
234	A hybrid LC–Gel-MS method for proteomics research and its application to protease functional pathway mapping. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 822, 98-111.	1.2	8
235	Systems biology and deviation curvature tensor. Nonlinear Analysis: Real World Applications, 2005, 6, 563-587.	0.9	49
236	Changes in the metabolome of associated with evolution in aerobic glucose-limited chemostats. FEMS Yeast Research, 2005, 5, 419-430.	1.1	80
237	Systems Biology—an interdisciplinary approach. Biosensors and Bioelectronics, 2005, 20, 2404-2407.	5.3	45
238	Transcriptional activation mechanisms of the PRM promoter of \hat{l} » phage. Biophysical Chemistry, 2005, 114, 229-234.	1.5	5
239	Dissecting the puzzle of life: modularization of signal transduction networks. Computers and Chemical Engineering, 2005, 29, 619-629.	2.0	78
240	Metabolic network modelling: Including stochastic effects. Computers and Chemical Engineering, 2005, 29, 2297-2303.	2.0	20
241	Pharmacogenomics and Systems Biology of Membrane Transporters. Molecular Biotechnology, 2005, 29, 75-88.	1.3	11

#	ARTICLE	IF	CITATIONS
242	Gene Expression Profiling in Neurological Disorders: Toward a Systems-Level Understanding of the Brain. NeuroMolecular Medicine, 2005, 6, 031-052.	1.8	21
243	Allostatic load and health disparities: A theoretical orientation. Research in Nursing and Health, 2005, 28, 306-315.	0.8	137
244	Metabolic flux analysis: A key methodology for systems biology of metabolism. , 0, , 191-214.		3
246	Shotgun lipidomics: multidimensional MS analysis of cellular lipidomes. Expert Review of Proteomics, 2005, 2, 253-264.	1.3	249
247	Innovation and intellectual property rights in systems biology. Nature Biotechnology, 2005, 23, 1485-1488.	9.4	18
248	System-level identification of transcriptional circuits underlying mammalian circadian clocks. Nature Genetics, 2005, 37, 187-192.	9.4	732
249	Cytoskeletal remodelling and slow dynamics in the living cell. Nature Materials, 2005, 4, 557-561.	13.3	434
250	Multicomponent therapeutics for networked systems. Nature Reviews Drug Discovery, 2005, 4, 71-78.	21.5	665
251	Metabolic footprinting and systems biology: the medium is the message. Nature Reviews Microbiology, 2005, 3, 557-565.	13.6	373
252	Computational processing and error reduction strategies for standardized quantitative data in biological networks. FEBS Journal, 2005, 272, 6400-6411.	2.2	66
253	Approximate entropy of fetal heart rate variability as a predictor of fetal distress in women at term pregnancy. Acta Obstetricia Et Gynecologica Scandinavica, 2005, 84, 837-843.	1.3	31
254	A reductionist's systems biologyOpinion. Current Opinion in Cell Biology, 2005, 17, 9-11.	2.6	63
255	Pharmacogenomics and cardiovascular drugs: Need for integrated biological system with phenotypes and proteomic markers. European Journal of Pharmacology, 2005, 527, 1-22.	1.7	32
256	Computational intelligence in solving bioinformatics problems. Artificial Intelligence in Medicine, 2005, 35, 1-8.	3.8	26
257	Biological networks and analysis of experimental data in drug discovery. Drug Discovery Today, 2005, 10, 653-662.	3.2	108
258	A comprehensive view of polyamine and histamine metabolism to the light of new technologies. Journal of Cellular and Molecular Medicine, 2005, 9, 854-864.	1.6	30
259	Targeted chiral lipidomics analysis. Prostaglandins and Other Lipid Mediators, 2005, 77, 141-157.	1.0	46
260	Human cytome project, cytomics, and systems biology: The incentive for new horizons in cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 64A, 1-2.	1.1	26

#	ARTICLE	IF	CITATIONS
261	Automated image analysis methods for 3-D quantification of the neurovascular unit from multichannel confocal microscope images. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 66A, 9-23.	1.1	26
262	Medicinal chemistry education: what is needed and where is it going?. Drug Development Research, 2005, 66, 1-8.	1.4	16
263	Fundamental issues in systems biology. BioEssays, 2005, 27, 1270-1276.	1.2	189
264	New hyphenated methodologies in high-sensitivity glycoprotein analysis. Journal of Separation Science, 2005, 28, 1956-1968.	1.3	100
265	Splitting the dynamics of large biochemical interaction networks. Journal of Theoretical Biology, 2005, 232, 375-384.	0.8	15
266	Primary hyperoxaluria type 1: is genotyping clinically helpful?. Pediatric Nephrology, 2005, 20, 555-557.	0.9	14
267	In vitro recombination cloning of entire cDNA libraries in Arabidopsis thaliana and its application to the yeast two-hybrid system. Functional and Integrative Genomics, 2005, 5, 175-183.	1.4	19
268	Component-based software architecture for biosystem reverse engineering. Biotechnology and Bioprocess Engineering, 2005, 10, 400-407.	1.4	2
269	Systems-level analysis of genome-scalein silico metabolic models using MetaFluxNet. Biotechnology and Bioprocess Engineering, 2005, 10, 425-431.	1.4	33
270	Can ecology help genomics: the genome as ecosystem?. Genetica, 2005, 123, 205-209.	0.5	19
271	From Single Genes to Co-Expression Networks: Extracting Knowledge from Barley Functional Genomics. Plant Molecular Biology, 2005, 58, 739-750.	2.0	24
272	The complexity of anatomical systems. Theoretical Biology and Medical Modelling, 2005, 2, 26.	2.1	48
273	Why repetitive DNA is essential to genome function. Biological Reviews, 2005, 80, 227-250.	4.7	253
274	PROGRESS IN BIOINFORMATICS - THE CHALLENGE OF INTEGRATING TRANSCRIPTOMIC, PROTEOMIC AND METABOLOMIC INFORMATION. Acta Horticulturae, 2005, , 417-426.	0.1	2
275	AMT Tag Approach to Proteomic Characterization of Deinococcus radiodurans and Shewanella oneidensis. Methods of Biochemical Analysis, 2005, , 113-134.	0.2	4
277	Mean aortic pressure is the geometric mean of systolic and diastolic aortic pressure in resting humans. Journal of Applied Physiology, 2005, 99, 2278-2284.	1.2	30
278	Parallel Metabolite and Transcript Profiling. , 2005, , 291-306.		1
279	DNA Array-Based Gene Profiling. Annals of Surgery, 2005, 241, 16-26.	2.1	37

#	Article	IF	CITATIONS
282	Contents / Preface. , 2005, 87, I-XIV.		0
283	Metabolic networks: biology meets engineering sciences. , 0, , 215-234.		2
284	Towards Integrative Functional Genomics Using Yeast as a Reference Model., 2005,, 9-29.		2
285	Modeling the Dynamics of Genetic Regulatory Networks: Continuous and Discrete Approaches. , 0, , 307-340.		7
286	The end of "naïve reductionism― rise of systems biology or renaissance of physiology?. American Journal of Physiology - Cell Physiology, 2005, 288, C968-C974.	2.1	109
287	Datamining Methodology for LC-MALDI-MS Based Peptide Profiling. Combinatorial Chemistry and High Throughput Screening, 2005, 8, 717-723.	0.6	17
288	A chemical waveform synthesizer. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8097-8102.	3.3	48
289	Dragon Plant Biology Explorer. A Text-Mining Tool for Integrating Associations between Genetic and Biochemical Entities with Genome Annotation and Biochemical Terms Lists. Plant Physiology, 2005, 138, 1914-1925.	2.3	31
290	Genomes, phylogeny, and evolutionary systems biology. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6630-6635.	3.3	58
291	Teaching Systems Biology: An Active-learning Approach. CBE: Life Sciences Education, 2005, 4, 323-329.	0.7	19
292	Interactome-transcriptome analysis reveals the high centrality of genes differentially expressed in lung cancer tissues. Bioinformatics, 2005, 21, 4205-4208.	1.8	363
293	A Regulatory Network Analysis of Phenotypic Plasticity in Yeast. American Naturalist, 2005, 165, 515-523.	1.0	40
294	Linking disease-associated genes to regulatory networks via promoter organization. Nucleic Acids Research, 2005, 33, 864-872.	6.5	41
295	Hybrid PCA and LDA Analysis of Microarray Gene Expression Data. , 2005, , .		0
296	The Role of Computational Models of the Immune System in Designing Vaccination Strategies. Immunopharmacology and Immunotoxicology, 2005, 27, 417-432.	1.1	8
297	The global transcriptional regulatory network for metabolism in Escherichia coli exhibits few dominant functional states. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 19103-19108.	3.3	90
298	Use of Nanobarcodes [®] Particles in Bioassays. , 2005, 303, 073-084.		15
299	Protein–protein interactions: organization, cooperativity and mapping in a bottom-up Systems Biology approach. Physical Biology, 2005, 2, S24-S35.	0.8	93

#	Article	IF	Citations
301	Analyse natÃ⅓rlicher Autoantikörper-Repertoires im Humansystem – Ein systembiologisch orientierter Ansatz zum Verstädnis Immunglobulin-vermittelter Immunregulation Analysis of natural autoantibody repertoires in humans – investigation of immunoglobulin-mediated immunoregulation at the level of complex biological systems. Das Medizinische Laboratorium, 2005, 29, 457-471.	0.0	0
302	Biochemical networks with uncertain parameters. IET Systems Biology, 2005, 152, 97.	2.0	47
303	CADLIVE dynamic simulator: Direct link of biochemical networks to dynamic models. Genome Research, 2005, 15, 590-600.	2.4	56
304	Intracellular Signaling: Spatial and Temporal Control. Physiology, 2005, 20, 169-179.	1.6	26
305	Systems biology of apoptosis., 0,, 349-372.		2
306	Role of cultivation media in the development of yeast strains for large scale industrial use. Microbial Cell Factories, 2005, 4, 31.	1.9	176
307	GMD@CSB.DB: the Golm Metabolome Database. Bioinformatics, 2005, 21, 1635-1638.	1.8	1,247
308	Molecular MR Imaging in Oncology. Magnetic Resonance Imaging Clinics of North America, 2005, 13, 225-240.	0.6	23
312	Improved understanding of gene expression regulation using systems biology. Expert Review of Proteomics, 2005, 2, 915-924.	1.3	5
313	The worldwide air transportation network: Anomalous centrality, community structure, and cities' global roles. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7794-7799.	3.3	1,377
314	Session Editorial: Computer Infrastructure for Systems Biology., 0,,.		0
315	Systems Biology: an information-theoretic-based thermo-statistical approach., 0, , .		0
316	Systems biology: melting the boundaries in drug discovery research. , 0, , .		3
317	Metabolite Profiling of Chlamydomonas reinhardtii under Nutrient Deprivation. Plant Physiology, 2005, 139, 1995-2005.	2.3	193
318	Disulfiram, an old drug with new potential therapeutic uses for human cancers and fungal infections. Molecular BioSystems, 2005, 1, 127.	2.9	90
319	Biochemical Reaction Network Modeling:Â Predicting Metabolism of Organic Chemical Mixtures. Environmental Science & Environmental Science & Environmen	4.6	25
320	Fundamentals of Surgical Research Course: Functional Genomics. Journal of Surgical Research, 2005, 128, 194-198.	0.8	0
321	Feeding and meat quality – a future approach. Meat Science, 2005, 70, 543-554.	2.7	158

#	Article	IF	CITATIONS
322	Glucose transport to the brain: A systems model. Brain Research Reviews, 2005, 49, 595-617.	9.1	81
323	Integration of sucrose accumulation processes across hierarchical scales: towards developing an understanding of the gene-to-crop continuum. Field Crops Research, 2005, 92, 119-135.	2.3	54
324	In silico identification of the key components and steps in IFN- \hat{l}^3 induced JAK-STAT signaling pathway. FEBS Letters, 2005, 579, 1101-1108.	1.3	98
325	A walk-through of the yeast mating pheromone response pathway. Peptides, 2005, 26, 339-350.	1.2	319
326	Therapeutic wisdom in traditional Chinese medicine: a perspective from modern science. Trends in Pharmacological Sciences, 2005, 26, 558-563.	4.0	334
327	Green plants as intelligent organisms. Trends in Plant Science, 2005, 10, 413-419.	4.3	178
328	Merging genomic control networks and soil-plant-atmosphere-continuum models. Agricultural Systems, 2005, 86, 243-274.	3.2	23
329	Synthetic biology for nanotechnology. Nanotechnology, 2005, 16, R1-R8.	1.3	49
330	Allergy-related genes in microarray: An update review. Journal of Allergy and Clinical Immunology, 2005, 116, 56-59.	1.5	15
331	Integrating disease knowledge and technology to deliver protein targets and biomarkers into drug discovery projects. Drug Discovery Today: Technologies, 2005, 2, 345-351.	4.0	3
332	Mass Spectrometry on the March: Where next? from Molecular Biophysics to Structural Biology, Perspectives and Challenges., 2005,, 382-441.		0
333	Fusion of Mass Spectrometry-Based Metabolomics Data. Analytical Chemistry, 2005, 77, 6729-6736.	3.2	290
336	Postgenomic futures: translations across the machine-nature border in systems biology. New Genetics and Society, 2005, 24, 195-226.	0.7	69
337	High-Throughput Data Analysis for Detecting and Identifying Differences between Samples in GC/MS-Based Metabolomic Analyses. Analytical Chemistry, 2005, 77, 5635-5642.	3 . 2	383
340	Protein turnover on the scale of the proteome. Expert Review of Proteomics, 2006, 3, 97-110.	1.3	77
341	Molecular Imaging: A Primer for Interventionalists and Imagers. Journal of Vascular and Interventional Radiology, 2006, 17, 1405-1423.	0.2	22
342	A graph-theoretic method for detecting potential Turing bifurcations. Journal of Chemical Physics, 2006, 125, 204102.	1.2	24
344	Service-Oriented Science: Scaling eScience Impact. , 2006, , .		5

#	Article	IF	CITATIONS
347	Thematic review series: Systems Biology Approaches to Metabolic and Cardiovascular Disorders. Lipidomics: a global approach to lipid analysis in biological systems. Journal of Lipid Research, 2006, 47, 2101-2111.	2.0	395
348	Service-Oriented Science: Scaling eScience Impact. , 2006, , .		1
349	Single-Walled Carbon-Nanotube Forest Immunosensor for Amplified Detection of Cancer Biomarkers. , $0, , .$		0
350	Application of Graph-based Data Mining to Metabolic Pathways. , 2006, , .		17
351	FACE Value: Perspectives on the Future of Free-Air CO2 Enrichment Studies. , 2006, , 431-449.		7
352	Carbon Nanotube Amplification Strategies for Highly Sensitive Immunodetection of Cancer Biomarkers. Journal of the American Chemical Society, 2006, 128, 11199-11205.	6.6	668
353	Dynamic modelling and analysis of biochemical networks: mechanism-based models and model-based experiments. Briefings in Bioinformatics, 2006, 7, 364-374.	3.2	220
354	Results Towards Identifiability Properties of Biochemical Reaction Networks. , 2006, , .		21
355	Cell Orientation by a Microgrooved Substrate Can Be Predicted by Automatic Control Theory. Biophysical Journal, 2006, 90, 4701-4711.	0.2	50
356	An Optimal Number of Molecules for Signal Amplification and Discrimination in a Chemical Cascade. Biophysical Journal, 2006, 91, 2072-2081.	0.2	28
357	Bifurcation and Singularity Analysis of a Molecular Network for the Induction of Long-Term Memory. Biophysical Journal, 2006, 90, 2309-2325.	0.2	34
358	The Limits of Reductionism in Medicine: Could Systems Biology Offer an Alternative?. PLoS Medicine, 2006, 3, e208.	3.9	377
359	Systems interface biology. Journal of the Royal Society Interface, 2006, 3, 603-616.	1.5	53
360	Integrating Evolution and Development: The Need for Bioinformatics in Evo-Devo. BioScience, 2006, 56, 301.	2.2	16
361	Cytomics: From Cell States to Predictive Medicine. , 2006, , 363-381.		2
362	An improved single-cell cDNA amplification method for efficient high-density oligonucleotide microarray analysis. Nucleic Acids Research, 2006, 34, e42-e42.	6.5	341
363	Quantitative Real-Time Measurements of DNA Hybridization with Alkylated Nonoxidized Silicon Nanowires in Electrolyte Solution. Journal of the American Chemical Society, 2006, 128, 16323-16331.	6.6	469
364	Motif Search in Graphs: Application to Metabolic Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2006, 3, 360-368.	1.9	146

#	Article	IF	CITATIONS
365	Extracting Biochemical Parameters for Cellular Modeling:Â A Mean-Field Approach. Journal of Physical Chemistry B, 2006, 110, 22019-22028.	1.2	9
366	Genetic Nature/Culture. Canadian Journal of Sociology, 2006, 31, 259.	0.4	8
367	Systems approaches to the networks of aging. Ageing Research Reviews, 2006, 5, 434-448.	5.0	41
368	Adaptation, adaptive capacity and vulnerability. Global Environmental Change, 2006, 16, 282-292.	3.6	3,598
369	Modeling and simulation in signal transduction pathways: a systems biology approach. Biochimie, 2006, 88, 277-283.	1.3	30
370	Microfluidics-based systems biology. Molecular BioSystems, 2006, 2, 97.	2.9	279
371	Advanced Methods and Algorithms for Biological Networks Analysis. Proceedings of the IEEE, 2006, 94, 832-853.	16.4	54
372	Application of transcriptional and biological network analyses in mouse germ-cell transcriptomes. Genomics, 2006, 88, 18-33.	1.3	26
373	Application of microarray technology in primate behavioral neuroscience research. Methods, 2006, 38, 227-234.	1.9	14
376	In Silico and In Vivo Approach to Elucidate the Inflammatory Complexity of CD14-deficient Mice. Molecular Medicine, 2006, 12, 88-96.	1.9	82
377	The genetics of phenotypic innovation. , 0, , 91-104.		4
379	Cell biochemistry studied by single-molecule imaging. Biochemical Society Transactions, 2006, 34, 983-988.	1.6	14
380	Old Methods for New Ideas: Genetic Dissection of the Determinants of Gene Expression Levels., 2005,, 89-107.		2
381	THE ROLE OF INITIAL TRAUMA IN THE HOST'S RESPONSE TO INJURY AND HEMORRHAGE. Shock, 2006, 26, 592-600.	1.0	81
382	Genetic and logic networks with the signal-inhibitor-activator structure are dynamically robust. Progress in Natural Science: Materials International, 2006, 16, 1329-1336.	1.8	0
383	IN SILICO MODELS OF ACUTE INFLAMMATION IN ANIMALS. Shock, 2006, 26, 235-244.	1.0	98
384	Towards Understanding the Role and Function of Regulatory Networks in Microorganisms. , 0, , 223-264.		5
385	Cancer: looking for simplicity and finding complexity. , 2006, 6, 4.		57

#	Article	IF	CITATIONS
386	Cancer initiation and progression: an unsimplifiable complexity. Theoretical Biology and Medical Modelling, 2006, 3, 37.	2.1	36
387	Lipopolysaccharide-stimulated responses in rat aortic endothelial cells by a systems biology approach. Proteomics, 2006, 6, 5915-5928.	1.3	17
388	The temperature of buds may be higher than you thought. New Phytologist, 2006, 170, 1-3.	3.5	24
389	The use of high-dimensional biology (genomics, transcriptomics, proteomics, and metabolomics) to understand the preterm parturition syndrome. BJOG: an International Journal of Obstetrics and Gynaecology, 2006, 113, 118-135.	1.1	165
390	Metabolomics, modelling and machine learning in systems biology - towards an understanding of the languages of cells. Delivered on 3 July 2005 at the 30th FEBS Congress and 9th IUBMB conference in Budapest. FEBS Journal, 2006, 273, 873-894.	2.2	142
391	Origins of fractality in the growth of complex networks. Nature Physics, 2006, 2, 275-281.	6.5	512
392	Addressing the problems with life-science databases for traditional uses and systems biology. Nature Reviews Genetics, 2006, 7, 482-488.	7.7	77
393	Linking data to models: data regression. Nature Reviews Molecular Cell Biology, 2006, 7, 813-819.	16.1	197
394	Data-driven modelling of signal-transduction networks. Nature Reviews Molecular Cell Biology, 2006, 7, 820-828.	16.1	347
395	Quantitative proteomics and its applications for systems biology. Biochemistry (Moscow), 2006, 71, 1060-1072.	0.7	8
396	'Root-food' and the rhizosphere microbial community composition. New Phytologist, 2006, 170, 3-6.	3.5	48
397	The long past of systems biology. New Phytologist, 2006, 170, 6-10.	3.5	28
398	Cardiac system bioenergetics: metabolic basis of the Frank-Starling law. Journal of Physiology, 2006, 571, 253-273.	1.3	212
399	Molecular system bioenergetics: regulation of substrate supply in response to heart energy demands. Journal of Physiology, 2006, 577, 769-777.	1.3	61
400	Micro-separation toward systems biology. Journal of Chromatography A, 2006, 1106, 19-28.	1.8	38
401	Renovating the undergraduate process control course. Computers and Chemical Engineering, 2006, 30, 1749-1762.	2.0	32
402	Systems biology as a foundation for genome-scale synthetic biology. Current Opinion in Biotechnology, 2006, 17, 488-492.	3.3	109
403	Applying data mining to learn system dynamics in a biological model. Expert Systems With Applications, 2006, 30, 50-58.	4.4	10

#	Article	IF	Citations
404	Dealing with bio- and ecological complexity: Challenges and opportunities. Annual Reviews in Control, 2006, 30, 91-101.	4.4	10
405	Bifurcations in a mathematical model for circadian oscillations of clock genes. Journal of Theoretical Biology, 2006, 239, 101-122.	0.8	46
406	The ratio of P40 monomer to dimer is an important determinant of IL-12 bioactivity. Journal of Theoretical Biology, 2006, 240, 323-335.	0.8	19
407	Sensitivity analysis practices: Strategies for model-based inference. Reliability Engineering and System Safety, 2006, 91, 1109-1125.	5.1	432
408	Miniaturized separation techniques in glycomic investigations. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 841, 65-78.	1.2	68
409	Multianalyte microphysiometry as a tool in metabolomics and systems biology. Journal of Electroanalytical Chemistry, 2006, 587, 333-339.	1.9	63
410	Metabolic engineering under uncertainty. I: Framework development. Metabolic Engineering, 2006, 8, 133-141.	3.6	68
411	Metabolomics and Systems Biology in Saccharomyces cerevisiae. , 2006, , 3-18.		9
412	A perspective of synthetic biology: Assembling building blocks for novel functions. Biotechnology Journal, 2006, 1, 690-699.	1.8	28
413	Preface: The Challenge of Cardiac Modeling-Interaction and Integration. Annals of the New York Academy of Sciences, 2006, 1080, xi-xxiii.	1.8	2
414	On the way to understand biological complexity in plants: S-nutrition as a case study for systems biology. Cellular and Molecular Biology Letters, 2006, 11, 37-56.	2.7	14
415	Deciphering the Complexity of Acute Inflammation Using Mathematical Models. Immunologic Research, 2006, 36, 237-246.	1.3	41
416	High-dimensional biology in obstetrics and gynecology: Functional genomics in microarray studies. American Journal of Obstetrics and Gynecology, 2006, 195, 360-363.	0.7	31
417	Functional and evolutionary inference in gene networks: does topology matter?. Genetica, 2006, 129, 83-103.	0.5	123
418	Current concepts of extracellular matrix. Journal of Orthopaedic Science, 2006, 11, 326-331.	0.5	46
419	The biogenic approach to cognition. Cognitive Processing, 2006, 7, 11-29.	0.7	145
420	From genetical genomics to systems genetics: potential applications in quantitative genomics and animal breeding. Mammalian Genome, 2006, 17, 548-564.	1.0	71
421	Optical molecular imaging for systems biology: from molecule to organism. Analytical and Bioanalytical Chemistry, 2006, 386, 444-457.	1.9	62

#	Article	IF	CITATIONS
422	Focal adhesions as mechanosensors: The two-spring model. BioSystems, 2006, 83, 225-232.	0.9	153
423	Spatial modeling of dimerization reaction dynamics in the plasma membrane: Monte Carlo vs. continuum differential equations. Biophysical Chemistry, 2006, 121, 194-208.	1.5	40
424	Variance component analysis of polymorphic metabolic systems. Journal of Theoretical Biology, 2006, 240, 149-159.	0.8	6
425	Incorporating expression data in metabolic modeling: A case study of lactate dehydrogenase. Journal of Theoretical Biology, 2006, 240, 464-474.	0.8	16
426	Systems Bioethics and Stem Cell Biology. Journal of Bioethical Inquiry, 2006, 3, 19-31.	0.9	15
427	Viability study of a personalized and adaptive knowledge-generation telehealthcare system for nephrology (NEFROTEL). International Journal of Medical Informatics, 2006, 75, 646-657.	1.6	21
428	The virtual laboratory approach to pharmacokinetics: design principles and concepts. Drug Discovery Today, 2006, 11, 800-805.	3.2	22
429	Cytomics as a new potential for drug discovery. Drug Discovery Today, 2006, 11, 785-791.	3.2	35
430	The coordinated evolution of yeast proteins is constrained by functional modularity. Trends in Genetics, 2006, 22, 416-419.	2.9	60
431	Systems-ADME/Tox: Resources and network approaches. Journal of Pharmacological and Toxicological Methods, 2006, 53, 38-66.	0.3	55
432	Multi-target strategies for the improved treatment of depressive states: Conceptual foundations and neuronal substrates, drug discovery and therapeutic application., 2006, 110, 135-370.		483
433	GEM System: automatic prototyping of cell-wide metabolic pathway models from genomes. BMC Bioinformatics, 2006, 7, 168.	1.2	47
434	MeMo: a hybrid SQL/XML approach to metabolomic data management for functional genomics. BMC Bioinformatics, 2006, 7, 281.	1.2	37
435	cPath: open source software for collecting, storing, and querying biological pathways. BMC Bioinformatics, 2006, 7, 497.	1.2	108
436	The modular systems biology approach to investigate the control of apoptosis in Alzheimer's disease neurodegeneration. BMC Neuroscience, 2006, 7, S2.	0.8	42
437	Nanoliter scale microbioreactor array for quantitative cell biology. Biotechnology and Bioengineering, 2006, 94, 5-14.	1.7	202
438	Capillary electrophoresis at the omics level: Towards systems biology. Electrophoresis, 2006, 27, 97-110.	1.3	35
439	Causal mapping as a tool to mechanistically interpret phenomena in cell motility: Application to cortical oscillations in spreading cells. Cytoskeleton, 2006, 63, 523-532.	4.4	11

#	Article	IF	CITATIONS
440	From multi-scale methodology to systems biology: to integrate strain improvement and fermentation optimization. Journal of Chemical Technology and Biotechnology, 2006, 81, 734-745.	1.6	28
441	Exploring the cell's network with molecular imaging. Journal of Magnetic Resonance Imaging, 2006, 24, 257-266.	1.9	3
442	Quantum Dots in Biological and Biomedical Research: Recent Progress and Present Challenges. Advanced Materials, 2006, 18, 1953-1964.	11.1	598
443	A novel computational model of the circadian clock in Arabidopsis that incorporates PRR7 and PRR9. Molecular Systems Biology, 2006, 2, 58.	3.2	213
444	Robust Filtering Circuit Design for Gene Networks under Intrinsic and Extrinsic Molecular Noises. , 2006, , .		1
445	VIRGO: computational prediction of gene functions. Nucleic Acids Research, 2006, 34, W340-W344.	6.5	25
446	A Systems Biology Approach to Learning Autophagy. Autophagy, 2006, 2, 12-23.	4.3	5
448	AGMIAL: implementing an annotation strategy for prokaryote genomes as a distributed system. Nucleic Acids Research, 2006, 34, 3533-3545.	6.5	84
449	Particle-Based Stochastic Simulation in Systems Biology. Current Bioinformatics, 2006, 1, 315-320.	0.7	36
450	Integrating Systems Biology and Medical Imaging: Understanding Disease Distribution in the Lung Model. American Journal of Roentgenology, 2006, 186, 925-930.	1.0	4
451	Engineering Approaches Toward Biological Information Integration at the Systems Level. Current Bioinformatics, 2006, 1, 85-93.	0.7	3
452	Towards Systemic Theories in Biological Psychiatry. Pharmacopsychiatry, 2006, 39, 4-9.	1.7	17
453	Information Technology in Systems Biology (Informationstechnologien in der Systembiologie). IT - Information Technology, 2006, 48, 133-139.	0.6	2
454	Multiple Sequence Alignment as a Workbench for Molecular Systems Biology. Current Bioinformatics, 2006, 1, 95-104.	0.7	11
455	Computational Models of Transcription Control: A Systems-Theoretic Perspective. Current Bioinformatics, 2006, 1, 263-272.	0.7	3
456	Resources and Tools for Investigating Biomolecular Networks in Mammals. Current Pharmaceutical Design, 2006, 12, 3723-34.	0.9	3
457	Student understanding of complex earth systems. , 2006, , .		13
458	New Technologies and Directed Agents for Applications of Cancer Imaging. Journal of Clinical Oncology, 2006, 24, 3299-3308.	0.8	97

#	Article	IF	CITATIONS
459	Why Do Hubs Tend to Be Essential in Protein Networks?. PLoS Genetics, 2006, 2, e88.	1.5	634
460	Strategies for dealing with incomplete information in the modeling of molecular interaction networks. Briefings in Bioinformatics, 2006, 7, 354-363.	3.2	23
461	Biological Roots and Applications of P Systems: Further Suggestions. Lecture Notes in Computer Science, 2006, , 1-17.	1.0	0
462	Ventilator-Induced Lung Injury. , 0, , .		4
463	Proposal for an Integrated Evaluation Model for the Study of Whole Systems Health Care in Cancer. Integrative Cancer Therapies, 2006, 5, 315-319.	0.8	30
464	Applying Transdisciplinary Research Strategies to Understanding and Eliminating Health Disparities. Health Education and Behavior, 2006, 33, 515-531.	1.3	102
465	Mathematical Modeling of Polyamine Metabolism in Mammals*. Journal of Biological Chemistry, 2006, 281, 21799-21812.	1.6	44
466	Bioinformatics Approaches to Integrate Metabolomics and Other Systems Biology Data. , 2006, , 105-115.		14
467	Putative regulatory sites unraveled by networkâ€embedded thermodynamic analysis of metabolome data. Molecular Systems Biology, 2006, 2, 2006.0034.	3.2	258
468	Direct Lyapunov exponent analysis enables parametric study of transient signalling governing cell behaviour. IET Systems Biology, 2006, 153, 425.	2.0	56
469	From systems biology to dynamical neuropharmacology: proposal for a new methodology. IET Systems Biology, 2006, 153, 299.	2.0	18
470	Growth of cortical neuronal networkin vitro: Modeling and analysis. Physical Review E, 2006, 73, 051906.	0.8	17
471	Soft-state biomicrofluidic pulse generator for single cell analysis. Applied Physics Letters, 2006, 88, 183901.	1.5	33
472	Sensitivity analysis of programmed cell death and implications for crosstalk phenomena during Tumor Necrosis Factor stimulation. , 2006, , .		1
473	Celldesigner: A Modeling Tool for Biochemical Networks. , 2006, , .		19
474	Systems Biology: a new hope for drug discovery?. Expert Opinion on Drug Discovery, 2006, 1, 653-661.	2.5	3
475	A robustness analysis of eukaryotic cell cycle concerning Cdc25 and wee1 proteins., 2006,,.		4
476	Challenges for Modeling and Simulation Methods in Systems Biology. , 2006, , .		13

#	Article	IF	Citations
477	Estimating the Unmeasured Dynamics of Biological Systems using a Constrained Real-Coded Genetic Algorithm. , 2006, , .		1
478	MODELING GENETIC REGULATORY NETWORKS: CONTINUOUS OR DISCRETE?. Journal of Biological Systems, 2006, 14, 219-229.	0.5	38
479	Large-scale identification of protein-protein interaction of Escherichia coli K-12. Genome Research, 2006, 16, 686-691.	2.4	368
480	Global metabolic profiling and its role in systems biology to advance personalized medicine in the 21st Century. Expert Review of Molecular Diagnostics, 2007, 7, 247-259.	1.5	45
481	A Distributed-Based Stochastic Simulation Algorithm for Large Biochemical Reaction Networks. , 2007, , .		2
482	Functional genomics and proteomics of the cellular osmotic stress response in `non-model' organisms. Journal of Experimental Biology, 2007, 210, 1593-1601.	0.8	78
483	A SYSTEMS BIOLOGY APPROACH TO THE STUDY OF CISPLATIN DRUG RESISTANCE IN OVARIAN CANCERS. Journal of Bioinformatics and Computational Biology, 2007, 05, 383-405.	0.3	19
484	SEMANTIC ANALYSIS OF BIOLOGICAL IMAGING DATA: CHALLENGES AND OPPORTUNITIES. International Journal of Semantic Computing, 2007, 01, 67-85.	0.4	10
485	A Hybrid Agent-Based Model of Chemotaxis. Lecture Notes in Computer Science, 2007, , 119-127.	1.0	1
486	Stochastic Simulation Techniques in Systems Biology. Proceedings of the American Control Conference, 2007, , .	0.0	0
487	Cell Size at S Phase Initiation: An Emergent Property of the G1/S Network. PLoS Computational Biology, 2007, 3, e64.	1.5	96
488	In Search of the Biological Significance of Modular Structures in Protein Networks. PLoS Computational Biology, 2007, 3, e107.	1.5	100
489	Cell Surface Receptors for Signal Transduction and Ligand Transport: A Design Principles Study. PLoS Computational Biology, 2007, 3, e101.	1.5	75
490	Evolutionary Models for Formation of Network Motifs and Modularity in the Saccharomyces Transcription Factor Network. PLoS Computational Biology, 2007, 3, e198.	1.5	38
491	Discrete event modelling and simulation in systems biology. Journal of Simulation, 2007, 1, 81-96.	1.0	21
493	Computational Realizations of Living Systems. Artificial Life, 2007, 13, 369-381.	1.0	13
494	Analysing microarray data in drug discovery using systems biology. Expert Opinion on Drug Discovery, 2007, 2, 755-768.	2.5	15
495	Patenting the Gene-Hubs of Endoplasmic Reticulum Stress: The Systems Biology Approach. Recent Patents on Biotechnology, 2007, 1, 243-251.	0.4	0

#	Article	IF	CITATIONS
497	Recent Patents on Cell Signaling Systems. Recent Patents on Biotechnology, 2007, 1, 25-48.	0.4	1
499	The Use of Interval Methods in Signal Processing and Control for Systems Biology. , 2007, , .		1
500	Mining Rules for Risk Factors on Blood Stream Infection in Hospital Information System., 2007,,.		3
501	Parameter Estimation of Signal Transduction Pathways Using Probability Density Function of Measurement., 2007,,.		0
502	Systems biology approach to integrative comparative genomics. Expert Review of Proteomics, 2007, 4, 107-119.	1.3	25
503	Contributions and perspectives of chicken genomics in Brazil: from biological model to export commodity. World's Poultry Science Journal, 2007, 63, 597-610.	1.4	3
504	Bayesian-based selection of metabolic objective functions. Bioinformatics, 2007, 23, 351-357.	1.8	86
505	The Theory of Biological Robustness and Its Implication in Cancer. , 2007, , 69-88.		48
506	Revisiting the Krogh Principle in the post-genome era: Caenorhabditis elegans as a model system for integrative physiology research. Journal of Experimental Biology, 2007, 210, 1622-1631.	0.8	29
508	Live & let die - A systems biology view on cell death. Computer Aided Chemical Engineering, 2007, , 927-928.	0.3	0
509	OPTIMAL DYNAMIC EXPERIMENTAL DESIGN IN SYSTEMS BIOLOGY: APPLICATIONS IN CELL SIGNALING IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 73-78.	0.4	0
510	A case study of integrating protein interaction data using semantic web technology. International Journal of Bioinformatics Research and Applications, 2007, 3, 286.	0.1	16
511	Mechanistic Pharmacokinetic/Pharmacodynamic Models II., 0,, 607-631.		3
512	Introduction: From the Discovery of Biological Oxidation to Molecular System Bioenergetics. , 0, , 1-8.		2
513	Utilization of anin vitro Hepatotoxicity Test in the Early Stage of Drug Discovery., 0,, 57-68.		0
514	On the Adaptive Design Rules of Biochemical Networks in Evolution. Evolutionary Bioinformatics, 2007, 3, 117693430700300.	0.6	12
515	Underlying Principles of Natural Selection in Network Evolution: Systems Biology Approach. Evolutionary Bioinformatics, 2007, 3, 117693430700300.	0.6	7
516	Systems Biology of Mammalian Circadian Clocks. Cold Spring Harbor Symposia on Quantitative Biology, 2007, 72, 365-380.	2.0	38

#	Article	IF	Citations
517	A systems biology approach to the diagnosis of venous thrombosis risk. Blood Coagulation and Fibrinolysis, 2007, 18, 215-217.	0.5	4
518	Changes of the Knowledge System and their Implication for the Formative Stage of Scholars: Experiences in the Natural Sciences. European Review, 2007, 15, 187-197.	0.4	0
519	Combinatorial signaling in the heart orchestrates cardiac induction, lineage specification and chamber formation. Seminars in Cell and Developmental Biology, 2007, 18, 54-66.	2.3	53
520	System and Control Theory Furthers the Understanding of Biological Signal Transduction. , 2007, , 123-135.		1
521	Metabolomics (liver and blood profiling) in a mouse model in response to fasting: A study of hepatic steatosis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2007, 1771, 1263-1270.	1.2	70
522	A Predictive Model for Transcriptional Control of Physiology in a Free Living Cell. Cell, 2007, 131, 1354-1365.	13.5	284
523	Differential expression of genes in pyrethroid resistant and susceptible mosquitoes, Culex quinquefasciatus (S.). Gene, 2007, 394, 61-68.	1.0	65
524	Mathematical modeling in necrotizing enterocolitis—a new look at an ongoing problem. Journal of Pediatric Surgery, 2007, 42, 445-453.	0.8	28
525	Integrating noninvasive molecular imaging into molecular medicine: an evolving paradigm. Trends in Molecular Medicine, 2007, 13, 183-191.	3. 5	113
526	Systems biology—An engineering perspective. Journal of Biotechnology, 2007, 129, 329-351.	1.9	61
527	Predict, prevent and personalize: Genomic and proteomic approaches to cardiovascular medicine. Canadian Journal of Cardiology, 2007, 23, 28A-33A.	0.8	26
528	Network Inference, Analysis, and Modeling in Systems Biology. Plant Cell, 2007, 19, 3327-3338.	3.1	156
529	Metabolomics: Enabling Systems-Level Phenotyping in Rice Functional Genomics., 2007,, 91-107.		6
532	The dynamics of cancer chromosomes and genomes. Cytogenetic and Genome Research, 2007, 118, 237-246.	0.6	68
536	Systematic evaluation of objective functions for predicting intracellular fluxes in <i>Escherichia coli</i> i>. Molecular Systems Biology, 2007, 3, 119.	3.2	623
537	Functional Annotation of Genomic Data with Metabolic Inference. Poultry Science, 2007, 86, 1510-1522.	1.5	8
538	Integrated and Organized Cellular Energetic Systems: Theories of Cell Energetics, Compartmentation, and Metabolic Channeling., 0,, 59-109.		18
541	Proteomics in 2005/2006:Â Developments, Applications and Challenges. Analytical Chemistry, 2007, 79, 4325-4344.	3.2	57

#	Article	IF	CITATIONS
542	High-resolution whole organ imaging using two-photon tissue cytometry. Journal of Biomedical Optics, 2007, 12, 014015.	1.4	64
543	Evolving genetic regulatory networks for systems biology. , 2007, , .		14
544	Game Models of the Defection Dilemma in Biopharmaceutical Discovery Research., 2007,,.		0
545	Perspectives on Mathematical Modeling for Receptor-Mediated Processes. Journal of Receptor and Signal Transduction Research, 2007, 27, 1-25.	1.3	3
546	Analytical Aspects of Plant Metabolite Profiling Platforms:Â Current Standings and Future Aims. Journal of Proteome Research, 2007, 6, 480-497.	1.8	94
547	Deactivation of Src Family Kinases: Hypothesis Testing Using a Monte Carlo Sensitivity Analysis of Systems-Level Properties. Journal of Computational Biology, 2007, 14, 1185-1200.	0.8	7
548	Phagocyte Transmigration Modeling Using System Dynamic Controls., 2007,,.		2
549	Enabling Technologies: Fermentation and Downstream Processing. , 2007, 105, 205-247.		17
550	Combining micro and macro-modeling in DEVS for computational biology., 2007,,.		24
551	Achievable information rates for molecular communication with distinct molecules. , 2007, , .		47
552	Drug Discovery in the Post-Genomic Era: Systems-Based Drug Discovery., 2007,,.		0
553	Interactive Semisupervised Learning for Microarray Analysis. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2007, 4, 190-203.	1.9	8
554	Models of Cooperation and Knowledge Management: The Case of Biomedical Technology Management. , 2007, , .		1
555	Evolving R&D Paradigms and Intellectual Property Strategies: A Historical Analysis across the Chemical, Biological, and Information Paradigms. , 2007, , .		0
557	Promoting Action of Radiation in the Atomic Bomb Survivor Carcinogenesis Data?. Radiation Research, 2007, 168, 750-756.	0.7	35
558	Understanding of robustness for a basic system of cell cycle in yeast., 2007,,.		0
559	Mathematical Modeling of Phagocyte Chemotaxis toward and Adherence to Biomaterial Implants. , 2007, , .		6
560	Proteomic biomarker discovery for the monogenic disease cystic fibrosis. Expert Review of Proteomics, 2007, 4, 199-209.	1.3	10

#	Article	IF	CITATIONS
561	Functional screening revisited in the postgenomic era. Molecular BioSystems, 2007, 3, 195.	2.9	3
562	On the Robust Circuit Design Schemes of Biochemical Networks: Steady-State Approach. IEEE Transactions on Biomedical Circuits and Systems, 2007, 1, 91-104.	2.7	34
563	Review of Systems Biology Simulation Tools for Translational Research., 2007,,.		0
566	Practical Applications of Bacterial Functional Genomics. Biotechnology and Genetic Engineering Reviews, 2007, 24, 213-242.	2.4	5
567	A Systems Biology Perspective on Obesity and Type 2 Diabetes. , 0, , 571-592.		1
568	Risk and Markers of Severe Acute Pancreatitis. Gastroenterology Clinics of North America, 2007, 36, 277-296.	1.0	92
569	Plant Metabolomics., 0,, 215-238.		1
570	On the Making of a System Theory of Life: Paul A Weiss and Ludwig von Bertalanffy's Conceptual Connection. Quarterly Review of Biology, 2007, 82, 349-373.	0.0	67
571	Screened Nonbonded Interactions in Native Proteins Manipulate Optimal Paths for Robust Residue Communication. Biophysical Journal, 2007, 92, 3052-3062.	0.2	53
572	Treatment of autoimmune diseases: A systems biology approach. Drug Discovery Today: Therapeutic Strategies, 2007, 4, 57-62.	0.5	1
573	Total nucleic acid analysis integrated on microfluidic devices. Lab on A Chip, 2007, 7, 1413. Mechanism and mechanical explanation in systems biology 11 This work began in March 2005, at the	3.1	174
574	Hanse Institute for Advanced Study (HWK) at Delmenhorst (Germany), in collaboration with Fred Boogerd and Frank Bruggeman. The HWK was a remarkable environment, and we acknowledge their support as the prime movers of this paper. The work continued at the University of OsnabrA½ck in the summer of 2005. In many ways. Boogerd and Bruggeman deserve to be coauthors of this paper. We		12
575	certainly would not, and could not, h., 2007, , 123-144. Data without models merging with models without data., 2007, , 181-213.		36
576	Issues in the Design and Interpretation of Chronic Toxicity and Carcinogenicity Studies in Rodents: Approaches to Dose Selection. Critical Reviews in Toxicology, 2007, 37, 729-837.	1.9	64
577	Metabolism and Metabolomics of Eukaryotes Living Under Extreme Conditions. International Review of Cytology, 2007, 256, 1 -34.	6.2	39
578	From Gene Expression to Metabolic Fluxes. , 2007, , 37-66.		2
579	Advancing Cancer Systems Biology: Introducing the Center for the Development of a Virtual Tumor, CViT. Cancer Informatics, 2007, 5, 117693510700500.	0.9	16
580	The Forest for the Trees: A Systems Approach to Human Health Research. Environmental Health Perspectives, 2007, 115, 1261-1263.	2.8	17

#	Article	IF	CITATIONS
581	Cancer as a System Failure. Cancer Informatics, 2007, 5, 117693510700500.	0.9	1
582	On the use of organisation modelling techniques to address biological organisation. Multiagent and Grid Systems, 2007, 3, 199-223.	0.5	3
583	Validating MAS simulation models with mutation. Multiagent and Grid Systems, 2007, 3, 225-243.	0.5	3
586	Hierarchical coexistence of universality and diversity controls robustness and multi-functionality in intermediate filament protein networks. Nature Precedings, 0, , .	0.1	5
590	Integrative database management for mouse development: Systems and concepts. Birth Defects Research Part C: Embryo Today Reviews, 2007, 81, 1-19.	3.6	5
591	Identification of flux regulation coefficients from elementary flux modes: A systems biology tool for analysis of metabolic networks. Biotechnology and Bioengineering, 2007, 97, 1535-1549.	1.7	33
592	A pharmaco-metabonomic study on the therapeutic basis and metabolic effects of Epimedium brevicornum Maxim. on hydrocortisone-induced rat using UPLC-MS. Biomedical Chromatography, 2007, 21, 397-405.	0.8	64
593	Label-Free Nanowire and Nanotube Biomolecular Sensors for In-Vitro Diagnosis of Cancer and other Diseases., 0,, 213-232.		4
594	Combination of automated high throughput platforms, flow cytometry, and hierarchical clustering to detect cell state. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2007, 71A, 16-27.	1.1	16
595	Whole-cell modeling framework in which biochemical dynamics impact aspects of cellular geometry. Journal of Theoretical Biology, 2007, 244, 154-166.	0.8	15
596	Modelling of circadian rhythms in Drosophila incorporating the interlocked PER/TIM and VRI/PDP1 feedback loops. Journal of Theoretical Biology, 2007, 245, 290-304.	0.8	36
597	Growth control of the eukaryote cell: a systems biology study in yeast. Journal of Biology, 2007, 6, 4.	2.7	234
598	The rational design of biological complexity: A deceptive metaphor. Proteomics, 2007, 7, 965-975.	1.3	46
599	Crop proteomics: Aim at sustainable agriculture of tomorrow. Proteomics, 2007, 7, 2976-2996.	1.3	155
600	Executable cell biology. Nature Biotechnology, 2007, 25, 1239-1249.	9.4	470
601	Microfabrication meets microbiology. Nature Reviews Microbiology, 2007, 5, 209-218.	13.6	699
602	The Large-Scale Digital Cell Analysis System: an open system for nonperturbing live cell imaging. Journal of Microscopy, 2007, 228, 296-308.	0.8	27
603	Bridging the gap between inâ€fsilico and cell-based analysis of the nuclear factor-κB signaling pathway by inâ€fvitro studies of IKK2. FEBS Journal, 2007, 274, 1678-1690.	2.2	20

#	Article	IF	CITATIONS
604	Qualitative networks: a symbolic approach to analyze biological signaling networks. BMC Systems Biology, 2007, 1, 4.	3.0	70
605	A system for success: BMC Systems Biology, a new open access journal. BMC Systems Biology, 2007, 1, 41.	3.0	0
606	Receptor downregulation and desensitization enhance the information processing ability of signalling receptors. BMC Systems Biology, 2007, 1, 48.	3.0	64
607	Efficient classification of complete parameter regions based on semidefinite programming. BMC Bioinformatics, 2007, 8, 12.	1.2	47
608	BioPP: a tool for web-publication of biological networks. BMC Bioinformatics, 2007, 8, 168.	1.2	14
609	Characterization of protein-interaction networks in tumors. BMC Bioinformatics, 2007, 8, 224.	1.2	100
610	qPIPSA: Relating enzymatic kinetic parameters and interaction fields. BMC Bioinformatics, 2007, 8, 373.	1.2	38
611	A systematic approach to detecting transcription factors in response to environmental stresses. BMC Bioinformatics, 2007, 8, 473.	1.2	14
612	Optimization of cDNA microarrays procedures using criteria that do not rely on external standards. BMC Genomics, 2007, 8, 377.	1.2	3
613	Integrative data mining in systems biology: from text to network mining. Artificial Intelligence in Medicine, 2007, 41, 83-86.	3.8	25
614	Regulatory networks: Linking microarray data to systems biology. Mechanisms of Ageing and Development, 2007, 128, 168-172.	2.2	23
615	Systems biology: A disruptive biopharmaceutical research paradigm. Technological Forecasting and Social Change, 2007, 74, 1643-1660.	6.2	13
616	Evidence-based modeling of critical illness: an initial consensus from the Society for Complexity in Acute Illness. Journal of Critical Care, 2007, 22, 77-84.	1.0	54
617	Dynamic Pathway Modeling: Feasibility Analysis and Optimal Experimental Design. Annals of the New York Academy of Sciences, 2007, 1115, 212-220.	1.8	13
618	Modelling and Analysis of Cell Death Signalling. , 2007, , 161-180.		1
619	Model Checking Genetic Regulatory Networks with Parameter Uncertainty. , 2007, , 61-75.		31
620	Systems biology of antibiotic production by microorganisms. Natural Product Reports, 2007, 24, 1262.	5.2	151
621	The virtual human: Towards a global systems biology of multiscale, distributed biochemical network models. IUBMB Life, 2007, 59, 689-695.	1.5	45

#	Article	IF	CITATIONS
622	Profiling of Endogenous Peptides in Human Synovial Fluid by NanoLCâ ⁻ 'MS:Â Method Validation and Peptide Identification. Journal of Proteome Research, 2007, 6, 4388-4396.	1.8	55
623	From mouse genetics to systems biology. Mammalian Genome, 2007, 18, 383-388.	1.0	4
625	5. Synthesis, metabolism and release of histamine. Inflammation Research, 2007, 56, S51-S52.	1.6	1
626	Genetic studies of diseases. Cellular and Molecular Life Sciences, 2007, 64, 1737-1738.	2.4	0
627	Genetic studies of diseases. Cellular and Molecular Life Sciences, 2007, 64, 1739-1751.	2.4	32
628	Genetic studies of diseases. Cellular and Molecular Life Sciences, 2007, 64, 1763-1777.	2.4	17
629	E-photosynthesis: a comprehensive modeling approach to understand chlorophyll fluorescence transients and other complex dynamic features of photosynthesis in fluctuating light. Photosynthesis Research, 2007, 93, 223-234.	1.6	14
630	Inferring the skeleton cell cycle regulatory network of malaria parasite using comparative genomic and variational Bayesian approaches. Genetica, 2007, 132, 131-142.	0.5	10
631	Nano- and micromechanical properties of hierarchical biological materials and tissues. Journal of Materials Science, 2007, 42, 8765-8770.	1.7	29
632	The uniqueness of biological self-organization: challenging the Darwinian paradigm. Biology and Philosophy, 2007, 22, 579-601.	0.7	15
633	Microbial metabolomics: past, present and future methodologies. Biotechnology Letters, 2007, 29, 1-16.	1.1	302
634	Polyamines: metabolism to systems biology and beyond. Amino Acids, 2007, 33, 283-289.	1.2	26
635	Developing effective tumor vaccines: basis, challenges and perspectives. Frontiers of Medicine in China, 2007, 1, 11-19.	0.1	0
636	Modelling molecular interaction pathways using a two-stage identification algorithm. Systems and Synthetic Biology, 2007, 1, 145-160.	1.0	13
637	Biological Transactions for Quantitative Models. Electronic Notes in Theoretical Computer Science, 2007, 171, 55-67.	0.9	6
638	The community structure of human cellular signaling network. Journal of Theoretical Biology, 2007, 247, 608-615.	0.8	55
639	Towards a systems level analysis of health and nutrition. Current Opinion in Biotechnology, 2008, 19, 100-109.	3.3	38
640	Metabolism as a complex genetic trait, a systems biology approach: Implications for inborn errors of metabolism and clinical diseases. Journal of Inherited Metabolic Disease, 2008, 31, 619-629.	1.7	41

#	Article	IF	Citations
641	PK/PD Modelling and Beyond: Impact on Drug Development. Pharmaceutical Research, 2008, 25, 2720-2722.	1.7	21
642	Robust metabolic adaptation underlying tumor progression. Metabolomics, 2008, 4, 1-12.	1.4	27
643	Genome information management and integrated data analysis with HaloLex. Archives of Microbiology, 2008, 190, 281-299.	1.0	83
644	Brief review: frontiers in the computational studies of gene regulations. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2008, 3, 251-259.	0.6	1
645	Learning from systems biology: An "Omics―approach to materials design. Jom, 2008, 60, 53-55.	0.9	7
646	Whole genome-based phylogenetic analysis of bacterial two-component systems. Biotechnology and Bioprocess Engineering, 2008, 13, 288-292.	1.4	11
647	In silico analysis of arginine catabolism as a source of nitric oxide or polyamines in endothelial cells. Amino Acids, 2008, 34, 223-229.	1.2	40
648	Quantitative microscopy and systems biology: seeing the whole picture. Histochemistry and Cell Biology, 2008, 130, 833-843.	0.8	39
649	A systems biology approach to construct the gene regulatory network of systemic inflammation via microarray and databases mining. BMC Medical Genomics, 2008, 1, 46.	0.7	47
650	Biological processes, properties and molecular wiring diagrams of candidate low-penetrance breast cancer susceptibility genes. BMC Medical Genomics, 2008, 1, 62.	0.7	13
651	Neuroproteomics and systems biologyâ€based discovery of protein biomarkers for traumatic brain injury and clinical validation. Proteomics - Clinical Applications, 2008, 2, 1467-1483.	0.8	61
652	Mass spectrometry in systems biology: An overview. Mass Spectrometry Reviews, 2008, 27, 635-660.	2.8	91
653	Systems Biology: The synergistic interplay between biology and mathematics. Canadian Journal of Chemical Engineering, 2008, 86, 127-141.	0.9	18
654	CE at the omics level: Towards systems biology – An update. Electrophoresis, 2008, 29, 129-142.	1.3	37
655	Bridging the educational researchâ€ŧeaching practice gap. Biochemistry and Molecular Biology Education, 2008, 36, 309-315.	0.5	51
656	Biochemical individuality reflected in chromatographic, electrophoretic and mass-spectrometric profiles. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 866, 26-47.	1.2	39
657	Theoretical and computational hierarchical nanomechanics of protein materials: Deformation and fracture. Progress in Materials Science, 2008, 53, 1101-1241.	16.0	168
658	A hybrid agent-based approach for modeling microbiological systems. Journal of Theoretical Biology, 2008, 255, 163-175.	0.8	34

#	Article	IF	CITATIONS
659	Standardizing experimental protocols. Current Opinion in Biotechnology, 2008, 19, 354-359.	3.3	20
660	Multi-timescale event-scheduling in multi-agent immune simulation models. BioSystems, 2008, 91, 126-145.	0.9	6
661	Cross-scale sensitivity analysis of a non-small cell lung cancer model: Linking molecular signaling properties to cellular behavior. BioSystems, 2008, 92, 249-258.	0.9	31
662	Simultaneous extraction of several metabolites of energy metabolism and related substances in mammalian cells: Optimization using experimental design. Analytical Biochemistry, 2008, 373, 349-369.	1.1	85
663	Modeling mechanosensing and its effect on the migration and proliferation of adherent cells. Acta Biomaterialia, 2008, 4, 613-621.	4.1	87
664	Automated solid-phase extraction for concentration and clean-up of female steroid hormones prior to liquid chromatography–electrospray ionization–tandem mass spectrometry: An approach to lipidomics. Journal of Chromatography A, 2008, 1207, 46-54.	1.8	21
665	Thermodynamic Constraints in Kinetic Modeling: Thermodynamicâ€Kinetic Modeling in Comparison to Other Approaches. Engineering in Life Sciences, 2008, 8, 467-476.	2.0	21
666	Metabolic flux analysis and metabolic engineering of microorganisms. Molecular BioSystems, 2008, 4, 113-120.	2.9	141
667	Identification of mouse heart transcriptomic network sensitive to various heart diseases. Biotechnology Journal, 2008, 3, 648-658.	1.8	6
668	Rhythmic plant morphogenesis: Recurrent patterns of idioblast cell production. Russian Journal of Plant Physiology, 2008, 55, 149-167.	0.5	10
669	Impact of systems biology on metabolic engineering of <i>Saccharomyces cerevisiae </i> Research, 2008, 8, 122-131.	1.1	131
670	Global mRNA changes in microarray experiments. Nature Biotechnology, 2008, 26, 741-742.	9.4	18
671	Learning biological networks: from modules to dynamics. Nature Chemical Biology, 2008, 4, 658-664.	3.9	117
672	Systems biology of persistent infection: tuberculosis as a case study. Nature Reviews Microbiology, 2008, 6, 520-528.	13.6	123
673	Molecular eco-systems biology: towards an understanding of community function. Nature Reviews Microbiology, 2008, 6, 693-699.	13.6	339
674	A Dynamic Mathematical Model To Clarify Signaling Circuitry Underlying Programmed Cell Death Control in Arabidopsis Disease Resistance. Biotechnology Progress, 2008, 20, 426-442.	1.3	15
675	Systems biology or the biology of systems: routes to reducing hunger. New Phytologist, 2008, 179, 579-582.	3.5	10
676	Applying modelling experiences from the past to shape crop systems biology: the need to converge crop physiology and functional genomics. New Phytologist, 2008, 179, 629-642.	3.5	81

#	Article	IF	CITATIONS
677	Cultivating plant synthetic biology from systems biology. New Phytologist, 2008, 179, 583-587.	3.5	23
678	Senescence: developmental program or timetable?. New Phytologist, 2008, 179, 575-579.	3.5	26
679	Does systems biology represent a Kuhnian paradigm shift?. New Phytologist, 2008, 179, 587-589.	3.5	12
680	The chloroplast as a regulator of Ca ²⁺ signalling. New Phytologist, 2008, 179, 568-570.	3.5	8
681	Genetic underpinnings of postzygotic reproductive barriers among plants. New Phytologist, 2008, 179, 572-574.	3.5	7
682	The flowering of systems approaches in plant and crop biology. New Phytologist, 2008, 179, 567-568.	3.5	7
684	Great leap forward? Transposable elements, small interfering RNA and adaptive Lamarckian evolution. New Phytologist, 2008, 179, 570-572.	3.5	20
685	Metabolomics for plant stress response. Physiologia Plantarum, 2008, 132, 199-208.	2.6	583
686	Motifâ€programmed artificial protein induces apoptosis in several cancer cells by disrupting mitochondria. Cancer Science, 2008, 99, 398-406.	1.7	9
687	Macroinvertebrate diversity in headwater streams: a review. Freshwater Biology, 2008, 53, 1707-1721.	1.2	349
688	A chromatic explosion: the development and future of multiparameter flow cytometry. Immunology, 2008, 125, 441-449.	2.0	154
689	Editorial to the Special Issue on Computational Systems Biology. Proceedings of the IEEE, 2008, 96, 1249-1253.	16.4	0
690	Fuzzy Fractal Analysis of Molecular Imaging Data. Proceedings of the IEEE, 2008, 96, 1332-1347.	16.4	5
691	Computational Systems Bioinformatics and Bioimaging for Pathway Analysis and Drug Screening. Proceedings of the IEEE, 2008, 96, 1310-1331.	16.4	12
692	CellDesigner 3.5: A Versatile Modeling Tool for Biochemical Networks. Proceedings of the IEEE, 2008, 96, 1254-1265.	16.4	380
693	Multigraph Conditions for Multistability, Oscillations and Pattern Formation in Biochemical Reaction Networks. Proceedings of the IEEE, 2008, 96, 1281-1291.	16.4	32
694	Increasing the efficiency of bacterial transcription simulations: When to exclude the genome without loss of accuracy. BMC Bioinformatics, 2008, 9, 373.	1.2	2
695	Using a logical model to predict the growth of yeast. BMC Bioinformatics, 2008, 9, 97.	1.2	18

#	Article	IF	CITATIONS
696	AMMO-Prot: amine system project 3D-model finder. BMC Bioinformatics, 2008, 9, S5.	1.2	5
697	Stochastic models for the in silico simulation of synaptic processes. BMC Bioinformatics, 2008, 9, S7.	1.2	7
698	On deducing causality in metabolic networks. BMC Bioinformatics, 2008, 9, S8.	1.2	8
699	Evidence of probabilistic behaviour in protein interaction networks. BMC Systems Biology, 2008, 2, 11.	3.0	12
700	Extracting expression modules from perturbational gene expression compendia. BMC Systems Biology, 2008, 2, 33.	3.0	16
701	Constructing disease-specific gene networks using pair-wise relevance metric: Application to colon cancer identifies interleukin 8, desmin and enolase 1 as the central elements. BMC Systems Biology, 2008, 2, 72.	3.0	64
702	A review of imaging techniques for systems biology. BMC Systems Biology, 2008, 2, 74.	3.0	235
703	Prediction of Key Factor Controlling G1/S Phase in the Mammalian Cell Cycle Using System Analysis. Journal of Bioscience and Bioengineering, 2008, 106, 368-374.	1.1	17
704	Coâ€evolution and coâ€adaptation in protein networks. FEBS Letters, 2008, 582, 1225-1230.	1.3	40
705	Logic models of pathway biology. Drug Discovery Today, 2008, 13, 447-456.	3.2	54
706	Plasmodium development in the mosquito: biology bottlenecks and opportunities for mathematical modeling. Trends in Parasitology, 2008, 24, 333-336.	1.5	32
707	Multi-scale computational modelling in biology and physiology. Progress in Biophysics and Molecular Biology, 2008, 96, 60-89.	1.4	149
708	Scale relativity theory and integrative systems biology: 2 Macroscopic quantum-type mechanics. Progress in Biophysics and Molecular Biology, 2008, 97, 115-157.	1.4	56
709	Scale relativity theory and integrative systems biology: 1. Progress in Biophysics and Molecular Biology, 2008, 97, 79-114.	1.4	75
710	Pathway analysis for BioAmbients. The Journal of Logic and Algebraic Programming, 2008, 77, 92-130.	1.4	13
711	Systems toxicology: using the systems biology approach to assess chemical pollutants in the environment. Advances in Experimental Biology, 2008, 2, 249-281.	0.1	8
712	Target Selection: Triage in the Structural Genomics Battlefield. Methods in Molecular Biology, 2008, 426, 37-47.	0.4	2
713	Identifying Fragilities in Biochemical Networks: Robust Performance Analysis of Fas Signaling-Induced Apoptosis. Biophysical Journal, 2008, 95, 2610-2623.	0.2	24

#	Article	IF	CITATIONS
714	A Top-Down Approach to Mechanistic Biological Modeling: Application to the Single-Chain Antibody Folding Pathway. Biophysical Journal, 2008, 95, 3535-3558.	0.2	9
715	Genetic interactions: the missing links for a better understanding of cancer susceptibility, progression and treatment. Molecular Cancer, 2008, 7, 4.	7.9	10
716	Psychiatric research: psychoproteomics, degradomics and systems biology. Expert Review of Proteomics, 2008, 5, 293-314.	1.3	33
717	Synchrony and entrainment properties of robust circadian oscillators. Journal of the Royal Society Interface, 2008, 5, S17-28.	1.5	35
718	Mapping global sensitivity of cellular network dynamics: sensitivity heat maps and a global summation law. Journal of the Royal Society Interface, 2008, 5, S59-69.	1.5	59
719	Modeling systems biology from the point of view of discrete and hybrid systems. , 2008, , .		2
720	System biology and its application in compound recipe of traditional Chinese medicine study. World Science and Technology, 2008, 10, 116-121.	0.1	10
721	Application of Systems Biology in Traditional Chinese Medicine Research. World Science and Technology, 2008, 10, 1-6.	0.1	6
722	Metabolic Compartmentation $\hat{a} \in A$ System Level Property of Muscle Cells. International Journal of Molecular Sciences, 2008, 9, 751-767.	1.8	87
723	New Computational Paradigms. , 2008, , .		12
724	In the Spotlight: Biomedical Imaging. IEEE Reviews in Biomedical Engineering, 2008, 1, 4-7.	13.1	10
725	Dynamic change in promoter activation during lysine biosynthesis in Escherichia coli cells. Molecular BioSystems, 2008, 4, 128-134.	2.9	14
727	Study of Diseases and the Immune System of Bivalves Using Molecular Biology and Genomics. Reviews in Fisheries Science, 2008, 16, 133-156.	2.1	95
728	Pharmacogenomics in Drug Discovery and Development. Methods in Molecular Biology, 2008, 448, v-vii.	0.4	8
729	Robust filtering circuit design for stochastic gene networks under intrinsic and extrinsic molecular noises. Mathematical Biosciences, 2008, 211, 342-355.	0.9	39
730	Bioinformatics analysis of functional protein sequences reveals a role for brain-derived neurotrophic factor in obesity and type 2 diabetes mellitus. Medical Hypotheses, 2008, 70, 424-429.	0.8	27
731	Characterizing emergent properties of immunological systems with multi-cellular rule-based computational modeling. Trends in Immunology, 2008, 29, 589-599.	2.9	94
732	An overview of cardiac systems biology. Journal of Molecular and Cellular Cardiology, 2008, 44, 460-469.	0.9	16

#	ARTICLE	IF	Citations
733	semCDI: A Query Formulation for Semantic Data Integration in caBIG. Journal of the American Medical Informatics Association: JAMIA, 2008, 15, 559-568.	2.2	16
734	Effects of protein maturation on the noise in gene expression. Physical Review E, 2008, 77, 021908.	0.8	18
735	The new interface of technology and medicine. IEEE Nanotechnology Magazine, 2008, 2, 9-13.	0.9	3
737	Knowledgeâ€making distinctions in synthetic biology. BioEssays, 2008, 30, 57-65.	1.2	161
739	Modelling biological modularity with CellML. IET Systems Biology, 2008, 2, 73-79.	0.8	35
740	A Paradigm for Self-Organisation: New Inspiration from Ant Foraging Trails. , 2008, , .		2
741	A stochastic approach to solving inverse problems of biochemical networks. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
742	Temporal Logic Analysis of Gene Networks Under Parameter Uncertainty. IEEE Transactions on Automatic Control, 2008, 53, 215-229.	3.6	54
743	The Nuclear Receptor Signaling Atlas: Catalyzing Understanding of Thyroid Hormone Signaling and Metabolic Control. Thyroid, 2008, 18, 113-122.	2.4	11
744	An Automatic Translation of SBML into Beta-Binders. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2008, 5, 80-90.	1.9	5
745	Robust Engineered Circuit Design Principles for Stochastic Biochemical Networks With Parameter Uncertainties and Disturbances. IEEE Transactions on Biomedical Circuits and Systems, 2008, 2, 114-132.	2.7	44
746	Parallel and Distributed Spatial Simulation of Chemical Reactions. , 2008, , .		19
747	Systems biology of cyanobacterial secondary metabolite production and its role in drug discovery. Expert Opinion on Drug Discovery, 2008, 3, 903-929.	2.5	46
748	Emergent decision-making in biological signal transduction networks. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1913-1918.	3.3	183
749	Search for Steady States of Piecewise-Linear Differential Equation Models of Genetic Regulatory Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2008, 5, 208-222.	1.9	47
750	High-confidence prediction of global interactomes based on genome-wide coevolutionary networks. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 934-939.	3.3	172
751	Agents, Modeling Processes, and the Allure of Prophecy. Biological Theory, 2008, 3, 73-78.	0.8	0
753	Systems Biology and Mode of Action Based Risk Assessment. Toxicological Sciences, 2008, 106, 312-318.	1.4	102

#	Article	IF	Citations
754	Improving the evaluation of filtration robustness. Journal of Environmental Engineering and Science, 2008, 7, 29-37.	0.3	4
755	Interaction Detection via Probabilistic Fuzzy Logic for Coupled Dynamical Systems., 2008,,.		0
756	Pharmacogenomics of multiple sclerosis: in search for a personalized therapy. Expert Opinion on Pharmacotherapy, 2008, 9, 3053-3067.	0.9	25
757	The crucial role of CS in systems and synthetic biology. Communications of the ACM, 2008, 51, 15-18.	3.3	10
758	Nanomechanical strength mechanisms of hierarchical biological materials and tissues. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 595-607.	0.9	26
759	Current research trends in systems biology. Animal Cells and Systems, 2008, 12, 181-191.	0.8	2
760	From the Determination of Complex Reaction Mechanisms to Systems Biology. Annual Review of Biochemistry, 2008, 77, 479-494.	5.0	17
761	Arginine Biosynthesis in Escherichia coli. Journal of Biological Chemistry, 2008, 283, 6347-6358.	1.6	54
762	Translational Systems Biology of Inflammation. PLoS Computational Biology, 2008, 4, e1000014.	1.5	214
763	Mining Gene Expression Profiles and Gene Regulatory Networks: Identification of Phenotype-Specific Molecular Mechanisms. Lecture Notes in Computer Science, 2008, , 97-109.	1.0	2
764	Why Are Computational Neuroscience and Systems Biology So Separate?. PLoS Computational Biology, 2008, 4, e1000078.	1.5	93
765	Stimulus Design for Model Selection and Validation in Cell Signaling. PLoS Computational Biology, 2008, 4, e30.	1.5	71
766	Different Types of Cell Death in Organismal Aging and Longevity: State of the Art and Possible Systems Biology Approach. Current Pharmaceutical Design, 2008, 14, 226-236.	0.9	11
767	The Synergistic Interactions of Allergic Lung Inflammation and Intratracheal Cationic Protein. American Journal of Respiratory and Critical Care Medicine, 2008, 177, 261-268.	2.5	52
768	Applications of emerging molecular technologies in glioblastoma multiforme. Expert Review of Neurotherapeutics, 2008, 8, 1497-1506.	1.4	22
769	A Review of Systems Biology Perspective on Genetic Regulatory Networks with Examples. Current Bioinformatics, 2008, 3, 197-225.	0.7	27
770	Comparative Study of Circadian Oscillatory Network Models of Drosophila. Artificial Life, 2008, 14, 29-48.	1.0	3
771	Construction of a Biological Tissue Model Based on a Single-Cell Model: A Computer Simulation of Metabolic Heterogeneity in the Liver Lobule. Artificial Life, 2008, 14, 3-28.	1.0	42

#	Article	IF	CITATIONS
772	The Topology of the Protein Network Influences the Dynamics of Gene Order: From Systems Biology to a Systemic Understanding of Evolution. Artificial Life, 2008, 14, 149-156.	1.0	15
773	Systems Biology and Psychiatry – Modeling Molecular and Cellular Networks of Mental Disorders. Pharmacopsychiatry, 2008, 41, S2-S18.	1.7	21
774	$\text{Gr}\tilde{A}\P\text{bner-free}$ normal forms for boolean polynomials. , 2008, , .		3
775	Emerging Roles for Metabolic Engineering - Understanding Primitive and Complex Metabolic Models and Their Relevance to Healthy and Diseased Kidney Podocytes. Current Chemical Biology, 2008, 2, 68-82.	0.2	0
776	On the Paradigm Shift Towards Multitarget Selective Drug Design. Current Computer-Aided Drug Design, 2008, 4, 76-90.	0.8	11
777	On bioinformatics and cognitive informatics: Emerging pattern, dissipative structure, and evolving cognition., 2008,,.		0
778	Sensitivity Measures for Oscillating Systems: Application to Mammalian Circadian Gene Network. IEEE Transactions on Automatic Control, 2008, 53, 177-188.	3. 6	59
779	A software framework for multiscale and multilevel physiological model integration and simulation. , 2008, 2008, 5449-53.		5
780	Computational Toxicology—A State of the Science Mini Review. Toxicological Sciences, 2008, 103, 14-27.	1.4	152
781	BLOODFEEDING AS AN INTERFACE OF MAMMALIAN AND ARTHROPOD IMMUNITY. , 2008, , 151-179.		1
782	Statistical Similarities between Transcriptomics and Quantitative Shotgun Proteomics Data. Molecular and Cellular Proteomics, 2008, 7, 631-644.	2.5	146
783	Initial Manifestations of Frailty Criteria and the Development of Frailty Phenotype in the Women's Health and Aging Study II. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2008, 63, 984-990.	1.7	389
784	A& A for modelling and engineering simulations in Systems Biology. International Journal of Agent Oriented Software Engineering, 2008, 2, 222.	0.1	12
785	Does Racism Harm Health? Did Child Abuse Exist Before 1962? On Explicit Questions, Critical Science, and Current Controversies: An Ecosocial Perspective. American Journal of Public Health, 2008, 98, S20-S25.	1.5	43
786	Proto-Plasm: parallel language for adaptive and scalable modelling of biosystems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3045-3065.	1.6	5
787	Network Motifs. , 0, , 85-111.		12
788	Signal Transduction and Gene Regulation Networks., 0,, 181-206.		4
789	Robust Control in Biology: From Genes to Cells to Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3470-3479.	0.4	4

#	Article	IF	CITATIONS
791	Centrality Analysis Methods for Biological Networks and Their Application to Gene Regulatory Networks. Gene Regulation and Systems Biology, 2008, 2, GRSB.S702.	2.3	238
792	Translational Systems Biology: Introduction of an Engineering Approach to the Pathophysiology of the Burn Patient. Journal of Burn Care and Research, 2008, 29, 277-285.	0.2	65
793	An integrative approach for biological data mining and visualisation. International Journal of Data Mining and Bioinformatics, 2008, 2, 54.	0.1	14
794	Systems Pharmacology, Biomarkers, and Biomolecular Networks. , 0, , 75-113.		0
796	Plant Breeding Education. , 2008, , 120-126.		5
797	Systems Biology and Cancer Prevention: All Options on the Table. Gene Regulation and Systems Biology, 2008, 2, GRSB.S1114.	2.3	10
798	Towards the integration of computational systems biology and high-throughput data: supporting differential analysis of microarray gene expression data. Journal of Integrative Bioinformatics, 2008, 5, 57-71.	1.0	2
799	Emerging Roles for Metabolic Engineering - Understanding Primitive and Complex Metabolic Models and Their Relevance to Healthy and Diseased Kidney Podocytes. Current Chemical Biology, 2008, 2, 68-82.	0.2	1
800	Systematic NMR Analysis of Stable Isotope Labeled Metabolite Mixtures in Plant and Animal Systems: Coarse Grained Views of Metabolic Pathways. PLoS ONE, 2008, 3, e3805.	1.1	78
801	The Acute Inflammatory Response in Trauma /Hemorrhage and Traumatic Brain Injury: Current State and Emerging Prospects. Libyan Journal of Medicine, 2008, 4, 97-103.	0.8	36
803	Using Neuroconstruct to Develop and Modify Biologically Detailed 3D Neuronal Network Models in Health and Disease., 2008,, 48-V.		0
804	Probabilistic sensitivity analysis of biochemical reaction systems. Journal of Chemical Physics, 2009, 131, 094101.	1.2	16
805	Systems Biology. , 2009, , 459-482.		0
807	Functionomics: the analysis of a postgenomic concept on the basis of pregenomic pharmacological studies in smooth muscle. Anais Da Academia Brasileira De Ciencias, 2009, 81, 605-613.	0.3	0
808	A Note on Inferring Acyclic Network Structures Using Granger Causality Tests. International Journal of Biostatistics, 2009, 5, Article 10.	0.4	6
809	The Acute Inflammatory Response in Trauma / Hemorrhage and Traumatic Brain Injury: Current State and Emerging Prospects. Libyan Journal of Medicine, 2009, 4, 136-148.	0.8	67
810	Pathway Projector: Web-Based Zoomable Pathway Browser Using KEGG Atlas and Google Maps API. PLoS ONE, 2009, 4, e7710.	1.1	78
811	Noise and critical phenomena in biochemical signaling cycles at small molecule numbers. Physical Review E, 2009, 80, 021915.	0.8	1

#	Article	IF	Citations
812	Introducing Systems Biology for Nursing Science. Biological Research for Nursing, 2009, 11, 73-80.	1.0	19
813	Toward a Systems Biology Framework for Understanding Aging and Health Span. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2009, 64A, 205-208.	1.7	28
814	Control variation as a source of uncertainty: Single input case. , 2009, , .		3
815	Parallel ecological networks in ecosystems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1755-1779.	1.8	136
816	Comparative Analysis of Modularity in Biological Systems. , 2009, , .		0
817	Algorithmic systems biology. Communications of the ACM, 2009, 52, 80-88.	3.3	100
818	Gene regulation in a particle metabolome. , 2009, , .		1
819	Multi-Agents System to Model Cell Signalling by Using Fuzzy Cognitive Maps. Application to Computer Simulation of Multiple Myeloma. , 2009, , .		12
820	From Modules to Models: Advanced Analysis Methods for Large-Scale Data. , 2009, , 59-83.		0
821	Assembly of an Interactive Correlation Network for the Arabidopsis Genome Using a Novel Heuristic Clustering Algorithm Â. Plant Physiology, 2009, 152, 29-43.	2.3	174
822	Application of l <inf>ρ</inf> norm regularization methods for modelling biological systems. , 2009, , .		0
823	Bio-inspired reverse engineering of regulatory networks. , 2009, , .		0
824	An Agent-Based Modeling Approach at Molecular Scale for Biochemical Networks: Simulating from Stochastic Molecular Events. , 2009, , .		1
825	Genetics and Social Inquiry. Annual Review of Sociology, 2009, 35, 107-128.	3.1	95
826	Transcriptional Wiring of Cell Wall-Related Genes in Arabidopsis. Molecular Plant, 2009, 2, 1015-1024.	3.9	60
827	The Impact of Time Delays on the Robustness of Biological Oscillators and the Effect of Bifurcations on the Inverse Problem. Eurasip Journal on Bioinformatics and Systems Biology, 2009, 2009, 327503.	1.4	19
828	A computational framework for modelling multicellular biochemistry. , 2009, , .		3
829	Genomic approaches for designing durum wheat ready for climate change with a focus on drought. Journal of Experimental Botany, 2009, 60, 2805-2815.	2.4	147

#	Article	IF	CITATIONS
830	Elucidating regulatory mechanisms downstream of a signaling pathway using informative experiments. Molecular Systems Biology, 2009, 5, 287.	3.2	26
831	A Network Modeling Approach to Analysis of the Th2 Memory Responses Underlying Human Atopic Disease. Journal of Immunology, 2009, 182, 6011-6021.	0.4	34
832	A divide-and-conquer approach to analyze underdetermined biochemical models. Bioinformatics, 2009, 25, 519-525.	1.8	25
833	A Model of the Unfolded Protein Response: Pancreatic β-Cell as a Case Study. Cellular Physiology and Biochemistry, 2009, 23, 233-244.	1.1	22
834	Characterization of Multienzyme-Antibody-Carbon Nanotube Bioconjugates for Immunosensors. Journal of Nanoscience and Nanotechnology, 2009, 9, 249-255.	0.9	33
835	Stable Bayesian Parameter Estimation for Biological Dynamical Systems. , 2009, , .		11
836	Systems Biology and Addiction. Pharmacopsychiatry, 2009, 42, S11-S31.	1.7	12
837	Philosophy of Neuroscience and Options of Systems Science. Pharmacopsychiatry, 2009, 42, S2-S10.	1.7	5
838	Insulin glulisine: preclinical hallmarks and clinical efficacy. Therapy: Open Access in Clinical Medicine, 2009, 6, 209-229.	0.2	0
839	Computing Algebraic Functions with Biochemical Reaction Networks. Artificial Life, 2009, 15, 5-19.	1.0	46
840	Post-genomic clinical trials - the perspective of ACGT. Ecancermedicalscience, 2009, 3, 66.	0.6	1
841	Differential dependency network analysis to identify condition-specific topological changes in biological networks. Bioinformatics, 2009, 25, 526-532.	1.8	127
842	Origins of Systems Biology in William Harvey's Masterpiece on the Movement of the Heart and the Blood in Animals. International Journal of Molecular Sciences, 2009, 10, 1658-1669.	1.8	33
843	Transcriptome and Proteome Exploration to Model Translation Efficiency and Protein Stability in Lactococcus lactis. PLoS Computational Biology, 2009, 5, e1000606.	1.5	37
844	Building Disease-Specific Drug-Protein Connectivity Maps from Molecular Interaction Networks and PubMed Abstracts. PLoS Computational Biology, 2009, 5, e1000450.	1.5	158
845	Spatial Analysis of Expression Patterns Predicts Genetic Interactions at the Mid-Hindbrain Boundary. PLoS Computational Biology, 2009, 5, e1000569.	1.5	36
846	Could there Be a Synthesis between Western and Oriental Medicine, and with Sasang Constitutional Medicine in Particular?. Evidence-based Complementary and Alternative Medicine, 2009, 6, 5-10.	0.5	20
847	Grand challenges in organismal biology. Integrative and Comparative Biology, 2009, 49, 7-14.	0.9	115

#	Article	IF	CITATIONS
848	Hemodynamically Driven Vein Graft Remodeling: A Systems Biology Approach. Vascular, 2009, 17, 2-9.	0.4	17
849	Robust synthetic biology design: stochastic game theory approach. Bioinformatics, 2009, 25, 1822-1830.	1.8	39
850	Biological knowledge management: the emerging role of the Semantic Web technologies. Briefings in Bioinformatics, 2009, 10, 392-407.	3.2	126
851	Rupture Mechanics of Vimentin Intermediate Filament Tetramers. Journal of Engineering Mechanics - ASCE, 2009, 135, 422-433.	1.6	4
852	Phylogenetic analysis of modularity in protein interaction networks. BMC Bioinformatics, 2009, 10, 333.	1.2	31
853	A generic algorithm for layout of biological networks. BMC Bioinformatics, 2009, 10, 375.	1.2	30
854	An integrated approach for the systematic identification and characterization of heart-enriched genes with unknown functions. BMC Genomics, 2009, 10, 100.	1.2	17
855	HAPPI: an online database of comprehensive human annotated and predicted protein interactions. BMC Genomics, 2009, 10, S16.	1.2	133
856	A framework for evolutionary systems biology. BMC Systems Biology, 2009, 3, 27.	3.0	65
857	ChemChains: a platform for simulation and analysis of biochemical networks aimed to laboratory scientists. BMC Systems Biology, 2009, 3, 58.	3.0	79
858	A systematic design method for robust synthetic biology to satisfy design specifications. BMC Systems Biology, 2009, 3, 66.	3.0	39
859	Translational Potential of Systemsâ€Based Models of Inflammation. Clinical and Translational Science, 2009, 2, 85-89.	1.5	42
860	Hammerhead ribozymes in therapeutic target discovery and validation. Drug Discovery Today, 2009, 14, 776-783.	3.2	23
861	A bunch of tiny individuals—Individual-based modeling for microbes. Ecological Modelling, 2009, 220, 8-22.	1.2	139
862	Regulation of respiration controlled by mitochondrial creatine kinase in permeabilized cardiac cells in situ. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1089-1105.	0.5	52
863	Computational intelligence and machine learning in bioinformatics. Artificial Intelligence in Medicine, 2009, 45, 91-96.	3.8	17
864	Current trends in high throughput proteomics in cyanobacteria. FEBS Letters, 2009, 583, 1744-1752.	1.3	23
865	Systems biology of lipid metabolism: From yeast to human. FEBS Letters, 2009, 583, 3905-3913.	1.3	97

#	Article	IF	CITATIONS
866	Systems analysis of cellular networks under uncertainty. FEBS Letters, 2009, 583, 3923-3930.	1.3	35
871	Systems biology and its application to the understanding of neurological diseases. Annals of Neurology, 2009, 65, 124-139.	2.8	99
872	A review of current applications of mass spectrometry for neuroproteomics in epilepsy. Mass Spectrometry Reviews, 2010, 29, 197-246.	2.8	14
873	Dynamical approaches to modeling developmental gene regulatory networks. Birth Defects Research Part C: Embryo Today Reviews, 2009, 87, 131-142.	3.6	16
874	Making the right connections: biological networks in the light of evolution. BioEssays, 2009, 31, 1080-1090.	1.2	21
875	Metabonomic profiling of liver metabolites by gas chromatography–mass spectrometry and its application to characterizing hyperlipidemia. Biomedical Chromatography, 2010, 24, 245-252.	0.8	30
876	A Control Flow Analysis for Beta-binders with and without static compartments. Theoretical Computer Science, 2009, 410, 3110-3127.	0.5	13
877	Toward systematic metabolic engineering based on the analysis of metabolic regulation by the integration of different levels of information. Biochemical Engineering Journal, 2009, 46, 235-251.	1.8	44
878	Designing nanomaterial-enhanced electrochemical immunosensors for cancer biomarker proteins. Bioelectrochemistry, 2009, 76, 189-194.	2.4	112
879	Computational challenges in systems biology. Computer Science Review, 2009, 3, 1-17.	10.2	38
880	A linear code parameter search algorithm with applications to immunology. Computational Optimization and Applications, 2009, 42, 155-171.	0.9	0
881	Density-Profile Processes Describing Biological Signaling Networks: Almost Sure Convergence to Deterministic Trajectories. Journal of Statistical Physics, 2009, 136, 875-901.	0.5	7
882	Solving logic equation via matrix expression. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2009, 4, 259-269.	0.6	6
883	Adaptation management of mountain tourism service: the case of the source regions of the Yangtze and Yellow River. Journal of Mountain Science, 2009, 6, 299-310.	0.8	3
884	Construction and comparative analysis of two-component system and metabolic network profile based phylogenetic trees. Biotechnology and Bioprocess Engineering, 2009, 14, 129-133.	1.4	1
885	A Delay in Pubertal Onset Affects the Covariation of Body Weight, Estradiol, and Bone Size. Calcified Tissue International, 2009, 84, 286-296.	1.5	7
887	Chronic lung diseases. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2009, 1, 298-308.	6.6	20
888	Multivariate statistical analysis applied to an IL6 signal transduction model in hepatocytes. Statistics in Medicine, 2009, 28, 2401-2434.	0.8	6

#	Article	IF	CITATIONS
889	Computational models in plant-pathogen interactions: the case of Phytophthora infestans. Theoretical Biology and Medical Modelling, 2009, 6, 24.	2.1	10
890	Common disorders are quantitative traits. Nature Reviews Genetics, 2009, 10, 872-878.	7.7	603
891	Systems biology of stem cell fate and cellular reprogramming. Nature Reviews Molecular Cell Biology, 2009, 10, 672-681.	16.1	330
892	Modelling the incentive to participate in open source biopharmaceutical innovation. R and D Management, 2010, 40, 50-66.	3.0	24
893	Resources and transgenesis techniques for functional genomics in <i>Xenopus</i>). Development Growth and Differentiation, 2009, 51, 387-401.	0.6	30
894	Carrying photosynthesis genes increases ecological fitness of cyanophage <i>in silico</i> . Environmental Microbiology, 2009, 11, 1386-1394.	1.8	74
895	The Fiveâ€Geneâ€Network Data Analysis with Local Causal Discovery Algorithm Using Causal Bayesian Networks. Annals of the New York Academy of Sciences, 2009, 1158, 93-101.	1.8	11
896	Analysis of stochasticity in promoter activation by using a dual-fluorescence reporter system. BioSystems, 2009, 97, 160-164.	0.9	4
897	In silico analysis of the effects of H2 and CO2 on the metabolism of a capnophilic bacterium Mannheimia succiniciproducens. Journal of Biotechnology, 2009, 144, 184-189.	1.9	11
898	Molecular networks and system-level properties. Journal of Biotechnology, 2009, 144, 224-233.	1.9	37
899	Improving prediction capabilities of complex dynamic models via parameter selection and estimation. Chemical Engineering Science, 2009, 64, 4178-4185.	1.9	31
900	An in-silico model of the biosynthesis of neurotransmitter glutamate, elucidates the complex regulatory role of glucocorticoids in neurotransmitter glutamate release. Computers in Biology and Medicine, 2009, 39, 501-511.	3.9	1
901	Live and let die—A systems biology view on cell death. Computers and Chemical Engineering, 2009, 33, 583-589.	2.0	13
902	Networks, biology and systems engineering: A case study in inflammation. Computers and Chemical Engineering, 2009, 33, 2028-2041.	2.0	21
903	Know your limits: Assumptions, constraints and interpretation in systems biology. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 1280-1287.	1.1	7
904	Systems Biology Modeling of the Radiation Sensitivity Network: A Biomarker Discovery Platform. International Journal of Radiation Oncology Biology Physics, 2009, 75, 497-505.	0.4	228
905	Microfluidic chip: Next-generation platform for systems biology. Analytica Chimica Acta, 2009, 650, 83-97.	2.6	79
907	Proteomic approaches in neuroblastoma: a complementary clinical platform for the future. Expert Review of Proteomics, 2009, 6, 387-394.	1.3	2

#	Article	IF	CITATIONS
908	Systems biology approaches and pathway tools for investigating cardiovascular disease. Molecular BioSystems, 2009, 5, 588.	2.9	96
909	Predictive Metabolomics Evaluation of Nutrition-Modulated Metabolic Stress Responses in Human Blood Serum During the Early Recovery Phase of Strenuous Physical Exercise. Journal of Proteome Research, 2009, 8, 2966-2977.	1.8	91
910	Parameter Set Selection via Clustering of Parameters into Pairwise Indistinguishable Groups of Parameters. Industrial & Engineering Chemistry Research, 2009, 48, 6000-6009.	1.8	95
911	Pinning Stabilization of Linearly Coupled Stochastic Neural Networks via Minimum Number of Controllers. IEEE Transactions on Neural Networks, 2009, 20, 1617-1629.	4.8	182
912	Hydrophobically Self-Assembled Nanoparticles as Molecular Receptors in Water. Journal of the American Chemical Society, 2009, 131, 6618-6623.	6.6	35
913	Biorefinery: Toward an industrial metabolism. Biochimie, 2009, 91, 659-664.	1.3	209
914	Collective cognition in animal groups. Trends in Cognitive Sciences, 2009, 13, 36-43.	4.0	690
915	Deciphering complex mechanisms in neurodegenerative diseases: the advent of systems biology. Trends in Neurosciences, 2009, 32, 88-100.	4.2	92
916	Towards a systems-based understanding of plant desiccation tolerance. Trends in Plant Science, 2009, 14, 110-117.	4.3	167
917	A discrete computer model of the immune system reveals competitive interactions between the humoral and cellular branch and between cross-reacting memory and naÃ-ve responses. Vaccine, 2009, 27, 833-845.	1.7	18
918	Nanotechnology, nanotoxicology, and neuroscience. Progress in Neurobiology, 2009, 87, 133-170.	2.8	356
919	A promising approach for understanding the mechanism of Traditional Chinese Medicine by the aggregation morphology. Journal of Ethnopharmacology, 2009, 123, 267-274.	2.0	26
920	Systems Biology Approaches to the Study of Apoptosis. , 2009, , 283-297.		8
921	Quantitative Detection of Small Molecule/DNA Complexes Employing a Force-Based and Label-Free DNA-Microarray. Biophysical Journal, 2009, 96, 4661-4671.	0.2	19
922	Computational systems approach for drug target discovery. Expert Opinion on Drug Discovery, 2009, 4, 1221-1236.	2.5	21
923	Nonlinear Multisystem Physiological Dysregulation Associated With Frailty in Older Women: Implications for Etiology and Treatment. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2009, 64A, 1049-1057.	1.7	403
924	Understanding apoptosis by systems biology approaches. Molecular BioSystems, 2009, 5, 1105.	2.9	45
925	Development of extractive electrospray ionization ion trap mass spectrometry for in vivo breath analysis. Analyst, The, 2009, 134, 2040.	1.7	55

#	Article	IF	Citations
926	Computer Algebra in Systems Biology. American Mathematical Monthly, 2009, 116, 882-891.	0.2	20
927	Microfluidics Technology for Systems Biology Research. Methods in Molecular Biology, 2009, 500, 203-219.	0.4	14
928	Systems Biology and Biotechnology of Escherichia coli. , 2009, , .		22
929	Structural Properties of Gene Regulatory Networks: Definitions and Connections. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2009, 6, 158-170.	1.9	6
930	Philosophical Basis and Some Historical Aspects of Systems Biology: From Hegel to Noble - Applications for Bioenergetic Research. International Journal of Molecular Sciences, 2009, 10, 1161-1192.	1.8	42
931	Bacterial Genome Sequencing. Methods in Molecular Biology, 2009, 551, 231-247.	0.4	19
933	The Cell Cycle Ontology: An application ontology for the representation and integrated analysis of the cell cycle process. Genome Biology, 2009, 10, R58.	13.9	38
934	Systems medicine: the future of medical genomics and healthcare. Genome Medicine, 2009, 1, 2.	3.6	333
935	Systems Biology. , 2009, , 279-312.		0
936	An integrative approach towards completing genome-scale metabolic networks. Molecular BioSystems, 2009, 5, 1889.	2.9	67
937	Glucose and Acetate Metabolism in E. coli – System Level Analysis and Biotechnological Applications in Protein Production Processes. , 2009, , 377-400.		21
938	Cross-species analysis of the glycolytic pathway by comparison of molecular interaction fields. Molecular BioSystems, 2009, 6, 162-174.	2.9	16
939	Bioinspired organic chemistry. Annual Reports on the Progress of Chemistry Section B, 2009, 105, 440.	0.8	2
940	Integration column: Microfluidic high-throughput screening. Integrative Biology (United Kingdom), 2009, 1, 19-29.	0.6	32
941	Customizable Visualization of Multi-omics Data in the Context of Biochemical Networks. , 2009, , .		2
942	Fuzzy Genes: Epistemic Tensions in Genomics. Science As Culture, 2009, 18, 65-87.	2.4	15
943	A Novel Deterministic-Stochastic Crossover Method for Simulating Biochemical Networks. , 2009, , .		2
944	An Efficient and Adaptive Mechanism for Parallel Simulation Replication. , 2009, , .		9

#	Article	IF	Citations
945	Detecting Hierarchical Modularity in Biological Networks. Methods in Molecular Biology, 2009, 541, 145-160.	0.4	44
946	Physiology of Mycobacteria. Advances in Microbial Physiology, 2009, 55, 81-319.	1.0	135
947	The role of biomedical engineers in systems / synthetic biology. IFMBE Proceedings, 2009, , 2714-2717.	0.2	0
948	Ultrasensitive Immunosensor for Cancer Biomarker Proteins Using Gold Nanoparticle Film Electrodes and Multienzyme-Particle Amplification. ACS Nano, 2009, 3, 585-594.	7.3	490
949	An Observer for Mass-action Chemical Reaction Networks. European Journal of Control, 2009, 15, 578-593.	1.6	2
950	Molecular Imaging: A Primer for Interventionalists and Imagers. Journal of Vascular and Interventional Radiology, 2009, 20, S505-S522.	0.2	1
951	Biological Resource Centers and Systems Biology. BioScience, 2009, 59, 113-125.	2.2	3
952	A knowledge-based theory of pharmaceutical alliances: evolving paradigms and motives for cooperation. International Journal of Intelligent Enterprise, 2009, 1, 115.	0.1	1
954	Graph Algorithms for Integrated Biological Analysis, with Applications to Type 1 Diabetes Data., 2009,, 207-222.		7
955	A mathematical approach to bone tissue engineering. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 2055-2078.	1.6	40
956	Automatic inference of multicellular regulatory networks using informative priors. International Journal of Computational Biology and Drug Design, 2009, 2, 115.	0.3	1
957	In Silico Models for Metabolic Systems Engineering. , 2009, , .		1
958	ã,·ã,¹ãƒ†ãƒãƒã,ã,ªãƒã,ãƒ⅓ã®é€²å±•. Kagaku To Seibutsu, 2009, 47, 202-210.	0.0	1
959	Novel Insights into Adipogenesis from Omics Data. Current Medicinal Chemistry, 2009, 16, 2952-2964.	1.2	35
960	A computational approach to resolve cell level contributions to early glandular epithelial cancer progression. BMC Systems Biology, 2009, 3, 122.	3.0	25
961	Network Models for Dissecting Plant Development by Functional Mapping. Current Bioinformatics, 2009, 4, 183-187.	0.7	3
962	Network Systems Underlying Traditional Chinese Medicine Syndrome and Herb Formula. Current Bioinformatics, 2009, 4, 188-196.	0.7	77
963	Systems Diagnostics: The Systems Approach to Molecular Imaging. American Journal of Roentgenology, 2009, 193, 287-294.	1.0	5

#	Article	IF	Citations
964	Uncovering Transcriptional Regulatory Networks by Sparse Bayesian Factor Model. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	6
965	Parametric Condition for Multistationarity in Biochemical Reaction Networks*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 30-35.	0.4	0
966	Systems Biology in Aerospace Medical Research. Aviation, Space, and Environmental Medicine, 2010, 81, 608-609.	0.6	0
967	Infrastructure modelling 2.0. International Journal of Critical Infrastructures, 2010, 6, 168.	0.1	6
968	TOWARDS REAL-TIME CONTROL OF GENE EXPRESSION: CONTROLLING THE HOG SIGNALING CASCADE. , 2010, , 338-349.		11
969	Systems Biology and TOR. The Enzymes, 2010, 28, 317-348.	0.7	1
970	Compact Extreme Learning Machines for biological systems. International Journal of Computational Biology and Drug Design, 2010, 3, 112.	0.3	4
971	On Robust State Estimation of Gene Networks. Biomedical Engineering and Computational Biology, 2010, 2, 117959721000200.	0.8	5
972	Mathematical modeling of bacterial metabolism. Moscow University Physics Bulletin (English) Tj ETQq0 0 0 rgBT /	Oyerlock	10 Tf 50 422
973	An Improved Method for the Separation and Quantification of Major Phospholipid Classes by LC-ELSD. Chromatographia, 2010, 72, 815-819.	0.7	5
974	Systems biotechnology – Rational wholeâ€cell biocatalyst and bioprocess design. Engineering in Life Sciences, 2010, 10, 384-397.	2.0	51
975	Biotechnology of Riboflavin Production. , 2010, , 115-139.		19
976	Chronopharmaceutical drug delivery systems: Hurdles, hype or hope?â~†. Advanced Drug Delivery Reviews, 2010, 62, 898-903.	6.6	57
977	The use of network analyses for elucidating mechanisms in cardiovascular disease. Molecular BioSystems, 2010, 6, 289-304.	2.9	81
978	Integrated multilaboratory systems biology reveals differences in protein metabolism between two reference yeast strains. Nature Communications, 2010, 1, 145.	5.8	100
979	Omics-based Medicine and Systems Pathology. Methods of Information in Medicine, 2010, 49, 173-185.	0.7	29
980	Bone Marrow Mesenchymal Stem Cells: Historical Overview and Concepts. Human Gene Therapy, 2010, 21, 1045-1056.	1.4	350
981	Systems biology and modeling in neuroblastoma: practicalities and perspectives. Expert Review of Molecular Diagnostics, 2010, 10, 131-145.	1.5	11

#	Article	IF	CITATIONS
983	Integrative systems biology and networks in autophagy. Seminars in Immunopathology, 2010, 32, 355-361.	2.8	9
984	Ultrasensitive electrochemical immunoassay based on cadmium ion-functionalized PSA@PAA nanospheres. Biosensors and Bioelectronics, 2010, 25, 1319-1324.	5.3	33
985	Ins and Outs of Systems Biology vis-Ã-vis Molecular Biology: Continuation or Clear Cut?. Acta Biotheoretica, 2010, 58, 15-49.	0.7	21
986	Systems Biology-Based Approaches to Understand HIV-Exposed Uninfected Women. Current HIV/AIDS Reports, 2010, 7, 53-59.	1.1	14
987	Petri nets for modelling metabolic pathways: a survey. Natural Computing, 2010, 9, 955-989.	1.8	94
988	Minimal formulation of joint motion for biomechanisms. Nonlinear Dynamics, 2010, 62, 291-303.	2.7	57
989	On the lack of specificity of proteins and its consequences for a theory of biological organization. Progress in Biophysics and Molecular Biology, 2010, 102, 45-52.	1.4	20
990	Integral biomathics: A post-Newtonian view into the logos of bios. Progress in Biophysics and Molecular Biology, 2010, 102, 85-121.	1.4	44
991	Extracting the abstraction pyramid from complex networks. BMC Bioinformatics, 2010, 11, 411.	1.2	9
992	The complexity of gene expression dynamics revealed by permutation entropy. BMC Bioinformatics, 2010, 11, 607.	1.2	33
993	Simulation of a Petri net-based Model of the Terpenoid Biosynthesis Pathway. BMC Bioinformatics, 2010, 11, 83.	1.2	7
994	An iterative identification procedure for dynamic modeling of biochemical networks. BMC Systems Biology, 2010, 4, 11.	3.0	144
995	Minimally perturbing a gene regulatory network to avoid a disease phenotype: the glioma network as a test case. BMC Systems Biology, 2010, 4, 15.	3.0	18
997	Biochemical modeling with Systems Biology Graphical Notation. Drug Discovery Today, 2010, 15, 365-370.	3.2	11
998	Systems biology of human benzene exposure. Chemico-Biological Interactions, 2010, 184, 86-93.	1.7	82
999	Systems microscopy: An emerging strategy for the life sciences. Experimental Cell Research, 2010, 316, 1438-1444.	1.2	45
1000	Agentâ€based Models and the Spatial Sciences. Geography Compass, 2010, 4, 428-448.	1.5	42
1001	Growing trend of CE at the omics level: The frontier of systems biology. Electrophoresis, 2010, 31, 74-92.	1.3	25

#	Article	IF	CITATIONS
1004	A rotating bed system bioreactor enables cultivation of primary osteoblasts on wellâ€characterized sponceram® regarding structural and flow properties. Biotechnology Progress, 2010, 26, 671-678.	1.3	11
1005	Improved network performance via antagonism: From synthetic rescues to multi-drug combinations. BioEssays, 2010, 32, 236-245.	1.2	35
1006	A systemic view of biodiversity and its conservation: Processes, interrelationships, and human culture. BioEssays, 2010, 32, 1090-1098.	1.2	46
1007	Cell lineâ€specific control of recombinant monoclonal antibody production by CHO cells. Biotechnology and Bioengineering, 2010, 106, 938-951.	1.7	90
1008	Targeted projection NMR spectroscopy for unambiguous metabolic profiling of complex mixtures. Magnetic Resonance in Chemistry, 2010, 48, 727-733.	1.1	17
1009	Parameter identifiability of power-law biochemical system models. Journal of Biotechnology, 2010, 149, 132-140.	1.9	57
1010	Pattern formation of a coupled two-cell Brusselator model. Journal of Mathematical Analysis and Applications, 2010, 366, 679-693.	0.5	26
1011	Anomalous flow behavior in closed and open thin walled nanochannels. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4242-4246.	0.9	4
1012	Noise-robust realization of Turing-complete cellular automata by using neural networks with pattern representation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4859-4863.	0.9	3
1013	Nonequilibrium thermodynamics modeling of coupled biochemical cycles in living cells. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 953-972.	1.0	46
1014	Epileptogenic ion channel mutations: From bedside to bench and, hopefully, back again. Epilepsy Research, 2010, 92, 1-29.	0.8	48
1015	Intra- and inter-omic fusion of metabolic profiling data in a systems biology framework. Chemometrics and Intelligent Laboratory Systems, 2010, 104, 121-131.	1.8	51
1016	The role of Computer Aided Process Engineering in physiology and clinical medicine. Computers and Chemical Engineering, 2010, 34, 763-769.	2.0	11
1017	From fluxes and isotope labeling patterns towards in silico cells. Current Opinion in Biotechnology, 2010, 21, 55-62.	3.3	34
1018	Exploitation of peptide motif sequences and their use in nanobiotechnology. Current Opinion in Biotechnology, 2010, 21, 412-425.	3.3	73
1019	Systems biology at work. Current Opinion in Biotechnology, 2010, 21, 498-501.	3.3	4
1020	Network, degeneracy and bow tie. Integrating paradigms and architectures to grasp the complexity of the immune system. Theoretical Biology and Medical Modelling, 2010, 7, 32.	2.1	71
1021	Predictive diagnostics and personalized medicine for the prevention of chronic degenerative diseases. Immunity and Ageing, 2010, 7, S1.	1.8	5

#	Article	IF	CITATIONS
1022	A conceptual cellular interaction model of left ventricular remodelling post-MI: dynamic network with exit-entry competition strategy. BMC Systems Biology, 2010, 4, S5.	3.0	21
1023	Parameter optimization by using differential elimination: a general approach for introducing constraints into objective functions. BMC Systems Biology, 2010, 4, S9.	3.0	6
1024	Deconvolution of a multi-component interaction network using systems chemistry. Journal of Systems Chemistry, 2010, 1 , .	1.7	14
1025	Proteomics and systems biology to tackle biological complexity: Yeast as a case study. Proteomics, 2010, 10, 4337-4341.	1.3	5
1026	Models at the single cell level. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 34-48.	6.6	11
1027	Computational modeling of mammalian signaling networks. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 194-209.	6.6	61
1028	Algorithmic and analytical methods in network biology. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 277-292.	6.6	28
1029	<i>In silico</i> models of cancer. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 438-459.	6.6	103
1030	The evolution of biological stoichiometry under global change. Oikos, 2010, 119, 737-740.	1.2	14
1031	The cycling hair follicle as an ideal systems biology research model. Experimental Dermatology, 2010, 19, 707-713.	1.4	75
1032	Global analysis of functional relationships between histone point mutations and the effects of histone deacetylase inhibitors. Genes To Cells, 2010, 15, 553-594.	0.5	6
1033	Modelling the molecular mechanisms of synaptic plasticity using systems biology approaches. Nature Reviews Neuroscience, 2010, 11, 239-251.	4.9	165
1034	Dissecting Variability in Responses to Cancer Chemotherapy Through Systems Pharmacology. Clinical Pharmacology and Therapeutics, 2010, 88, 34-38.	2.3	59
1035	Modeling Three-Dimensional Spatial Regulation of Bacterial Cell Division (Dissertation). Nature Precedings, 2010, , .	0.1	1
1036	System biology analysis of cell cycle pathway involved in hepatocellular carcinoma. Frontiers in Bioscience - Scholar, 2010, S2, 1127-1144.	0.8	8
1045	Toward integration of biological and physiological functions at multiple levels. Frontiers in Physiology, 2010, 1, 164.	1.3	17
1046	Omics for the Development of Novel Phytomedicines. , 2010, , 297-314.		0
1047	Genomics, Bioinformatics, and Computational Biology. , 2010, , 641-661.		1

#	Article	IF	Citations
1048	Systems Biology: The Next Frontier for Bioinformatics. Advances in Bioinformatics, 2010, 2010, 1-10.	5.7	51
1049	Quo Vadis, Artificial Intelligence?. Advances in Artificial Intelligence, 2010, 2010, 1-12.	0.9	16
1050	Linear Control Theory for Gene Network Modeling. PLoS ONE, 2010, 5, e12785.	1.1	17
1051	Inference of Cancer-specific Gene Regulatory Networks Using Soft Computing Rules. Gene Regulation and Systems Biology, 2010, 4, GRSB.S4509.	2.3	12
1052	The Role of Nitric Oxide in Apoptosis and Autophagy. , 2010, , 513-537.		2
1053	C-It: a knowledge database for tissue-enriched genes. Bioinformatics, 2010, 26, 2328-2333.	1.8	18
1054	Genetics and genomic approaches to improve grape quality for winemaking., 2010, , 316-364.		5
1055	Streamlining the construction of large-scale dynamic models using generic kinetic equations. Bioinformatics, 2010, 26, 1324-1331.	1.8	16
1056	Bioenergy research: a new paradigm in multidisciplinary research. Journal of the Royal Society Interface, 2010, 7, 1391-1401.	1.5	21
1057	Subcellular metabolic organization in the context of dynamic energy budget and biochemical systems theories. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3429-3442.	1.8	15
1058	Systems engineering medicine: engineering the inflammation response to infectious and traumatic challenges. Journal of the Royal Society Interface, 2010, 7, 989-1013.	1.5	23
1059	Flexible experimentation in the modeling and simulation framework JAMES IIimplications for computational systems biology. Briefings in Bioinformatics, 2010, 11, 290-300.	3.2	36
1060	AraGEM, a Genome-Scale Reconstruction of the Primary Metabolic Network in Arabidopsis Â. Plant Physiology, 2010, 152, 579-589.	2.3	319
1061	SPARK., 2010,,.		6
1062	FUZZY CAUSAL MAPPING (F-CMAP) — A PROPOSAL TO DEVELOP A NEW SYSTEMS BIOLOGY TOOL. New Mathematics and Natural Computation, 2010, 06, 97-107.	0.4	1
1063	Plant roots: autopoietic and cognitive constructions. Plant Root, 2010, 4, 40-52.	0.3	13
1064	Single Cell Physiology. Springer Series in Chemical Physics, 2010, , 305-316.	0.2	2
1066	Granger Causality Analysis of Human Cell-Cycle Gene Expression Profiles. Statistical Applications in Genetics and Molecular Biology, 2010, 9, Article31.	0.2	14

#	Article	IF	CITATIONS
1067	Towards a Systems Approach for Lignin Biosynthesis in Populus trichocarpa: Transcript Abundance and Specificity of the Monolignol Biosynthetic Genes. Plant and Cell Physiology, 2010, 51, 144-163.	1.5	280
1068	Development of a three dimensional (3-D) silicon micro-array for cell capturing. , 2010, , .		1
1070	Design of a framework for modeling, integration and simulation of physiological models. , 2010, 2010, 1485-9.		1
1071	Uncovering transcriptional regulatory networks by sparse Bayesian factor model. , 2010, , .		2
1072	Generalized connectivity between any two nodes in a complex network. Physical Review E, 2010, 81, 036113.	0.8	6
1073	Applying biotechnology to design tree composition for value-added products a mini-review. Australian Forestry, 2010, 73, 191-197.	0.3	4
1074	A Systems Model of Vesicle Trafficking in Arabidopsis Pollen Tubes Â. Plant Physiology, 2010, 152, 590-601.	2.3	35
1075	Functional genomics and networks: new approaches in the extraction of complex gene modules. Expert Review of Proteomics, 2010, 7, 55-63.	1.3	10
1076	Advances in Computation and Intelligence. Lecture Notes in Computer Science, 2010, , .	1.0	8
1079	Translational systems biology of inflammation: potential applications to personalized medicine. Personalized Medicine, 2010, 7, 549-559.	0.8	61
1080	Unraveling human complexity and disease with systems biology and personalized medicine. Personalized Medicine, 2010, 7, 275-289.	0.8	50
1081	A Computer-Based Model for Studying the Effects of Lasers on the Retina. , 2010, , .		0
1082	Structure, Affinity, and Availability of Estrogen Receptor Complexes in the Cellular Environment. Journal of Biological Chemistry, 2010, 285, 2428-2437.	1.6	11
1083	Theoretical Modeling Techniques and Their Impact on Tumor Immunology. Clinical and Developmental Immunology, 2010, 2010, 1-11.	3.3	15
1084	From digital genetics to knowledge discovery: Perspectives in genetic network understanding. Intelligent Data Analysis, 2010, 14, 173-191.	0.4	5
1085	Stochastic Ion Channel Gating in Dendritic Neurons: Morphology Dependence and Probabilistic Synaptic Activation of Dendritic Spikes. PLoS Computational Biology, 2010, 6, e1000886.	1.5	90
1086	Oncoproteomics of Neuroblastoma: A Blueprint for Future Progress. Current Proteomics, 2010, 7, 1-14.	0.1	0
1087	NeuroML: A Language for Describing Data Driven Models of Neurons and Networks with a High Degree of Biological Detail. PLoS Computational Biology, 2010, 6, e1000815.	1.5	294

#	ARTICLE	IF	CITATIONS
1088	Reverse Engineering of Oxygen Transport in the Lung: Adaptation to Changing Demands and Resources through Space-Filling Networks. PLoS Computational Biology, 2010, 6, e1000902.	1.5	29
1089	Computational Complementation: A Modelling Approach to Study Signalling Mechanisms during Legume Autoregulation of Nodulation. PLoS Computational Biology, 2010, 6, e1000685.	1.5	11
1090	Identifying Functional Mechanisms of Gene and Protein Regulatory Networks in Response to a Broader Range of Environmental Stresses. Comparative and Functional Genomics, 2010, 2010, 1-20.	2.0	15
1091	Network Modeling Reveals Prevalent Negative Regulatory Relationships between Signaling Sectors in Arabidopsis Immune Signaling. PLoS Pathogens, 2010, 6, e1001011.	2.1	110
1092	Virtual Tissues and Developmental Systems Biology. , 2010, , 347-358.		5
1093	Bacterial adaptation through distributed sensing of metabolic fluxes. Molecular Systems Biology, 2010, 6, 355.	3.2	224
1094	Mental Illness, Synapses and the Brain – Behavioral Disorders by a System of Molecules within a System of Neurons?. Pharmacopsychiatry, 2010, 43, S9-S20.	1.7	6
1095	SBRML: a markup language for associating systems biology data with models. Bioinformatics, 2010, 26, 932-938.	1.8	54
1096	Establishing positional information through gradient dynamics. Fly, 2010, 4, 273-277.	0.9	3
1097	Systems Biology Uncovers the Foundation of Natural Genetic Diversity. Plant Physiology, 2010, 152, 480-486.	2.3	24
1098	Network analysis for exploring systems biology. , 2010, , .		2
1099	Identification of major responding proteins of Abnormal Leaf and Flower in soybean with an integrative "omics" strategy. , 2010, , .		0
1100	www.aquaticmicrobial.net. Communicative and Integrative Biology, 2010, 3, 491-494.	0.6	37
1101	Genes and Pathways Contributing to Obesity. Progress in Molecular Biology and Translational Science, 2010, 94, 9-38.	0.9	3
1102	Undesired Neural Side-Effects of a Drug, a Chemical and Genetic Interrelated Problem. Central Nervous System Agents in Medicinal Chemistry, 2010, 10, 108-112.	0.5	6
1103	Pharmacodynamic Studies of Chinese Medicine at Levels of Whole Animal, Cell and Molecular Models. Current Medicinal Chemistry, 2010, 17, 4521-4537.	1.2	12
1104	Building a disease knowledge environment to lay the foundations for <i>in silico</i> drug discovery and translational medicine. Expert Opinion on Drug Discovery, 2010, 5, 117-122.	2.5	1
1105	Effects of Ionizing Radiation on Cell-to-Cell Communication. Radiation Research, 2010, 174, 280-289.	0.7	23

#	Article	IF	CITATIONS
1106	Systems biology: opening new avenues in clinical research. Nephrology Dialysis Transplantation, 2010, 25, 1015-1018.	0.4	36
1107	Novel Therapies in Childhood Heart Failure: Today and Tomorrow. Heart Failure Clinics, 2010, 6, 591-621.	1.0	8
1108	Integrative Systems Biology for Data-Driven Knowledge Discovery. Seminars in Nephrology, 2010, 30, 443-454.	0.6	20
1109	Membrane Transporters and Drug Development: Relevance to Pharmacogenomics, Nutrigenomics, Epigenetics, and Systems Biology. Methods in Molecular Biology, 2010, 637, 1-21.	0.4	10
1110	Sensitive electrochemical immunosensor for matrix metalloproteinase-3 based on single-wall carbon nanotubes. Analyst, The, 2010, 135, 1345.	1.7	57
1111	Sensitive Immunosensor for Cancer Biomarker Based on Dual Signal Amplification Strategy of Graphene Sheets and Multienzyme Functionalized Carbon Nanospheres. Analytical Chemistry, 2010, 82, 2989-2995.	3.2	438
1112	Biological applications of microfluidic gradient devices. Integrative Biology (United Kingdom), 2010, 2, 584.	0.6	307
1113	Systems Biology of Mammalian Circadian Clocks. Annual Review of Physiology, 2010, 72, 579-603.	5.6	187
1116	Automating Mathematical Modeling of Biochemical Reaction Networks. Systems Biology, 2010, , 159-205.	0.1	4
1119	New Technologies for Application to Veterinary Therapeutics. Handbook of Experimental Pharmacology, 2010, , 191-210.	0.9	3
1120	Characterization of Biological Processes through Automated Image Analysis. Annual Review of Biomedical Engineering, 2010, 12, 315-344.	5.7	64
1121	Workflows for Metabolic Flux Analysis: Data Integration and Human Interaction. Lecture Notes in Computer Science, 2010, , 261-275.	1.0	6
1122	Why do We Look at Asthma through the Keyhole?. Archivos De Bronconeumologia, 2010, 46, 433-438.	0.4	3
1123	High-Throughput Biological Data Analysis. IEEE Control Systems, 2010, 30, 81-100.	1.0	2
1124	Hub Gene Selection Methods for the Reconstruction of Transcription Networks. Lecture Notes in Computer Science, 2010, , 506-521.	1.0	2
1125	Systems Biology in Drug Discovery and Development. Methods in Molecular Biology, 2010, , .	0.4	2
1126	Graphical methods for analysing feedback in biological networks – A survey. International Journal of Systems Science, 2010, 41, 35-46.	3.7	20
1127	Blind Separation of Analytes in Nuclear Magnetic Resonance Spectroscopy and Mass Spectrometry: Sparseness-Based Robust Multicomponent Analysis. Analytical Chemistry, 2010, 82, 1911-1920.	3.2	13

#	Article	IF	CITATIONS
1128	Our Wormy World. Advances in Parasitology, 2010, 73, 327-371.	1.4	19
1129	Metabolic Engineering of Pathways and Gene Discovery. , 2010, , 275-306.		1
1130	The progress of radiobiological models in modern radiotherapy with emphasis on the uncertainty issue. Mutation Research - Reviews in Mutation Research, 2010, 704, 175-181.	2.4	18
1131	Structural Characterization of Protein–Protein Complexes by Integrating Computational Docking with Small-angle Scattering Data. Journal of Molecular Biology, 2010, 403, 217-230.	2.0	64
1132	On multistability of delayed genetic regulatory networks with multivariable regulation functions. Mathematical Biosciences, 2010, 228, 100-109.	0.9	26
1133	Expectations, validity, and reality in omics. Journal of Clinical Epidemiology, 2010, 63, 945-949.	2.4	51
1134	Homeostasis and Inflammation in the Intestine. Cell, 2010, 140, 859-870.	13.5	671
1135	GC/MS-based metabolomics reveals fatty acid biosynthesis and cholesterol metabolism in cell lines infected with influenza A virus. Talanta, 2010, 83, 262-268.	2.9	81
1136	Functional mapping of drug response with pharmacodynamic–pharmacokinetic principles. Trends in Pharmacological Sciences, 2010, 31, 306-311.	4.0	27
1137	Combined analysis of the glia secretome and the CSF proteome: neuroinflammation and novel biomarkers. Expert Review of Proteomics, 2010, 7, 263-274.	1.3	25
1138	Toward a Conceptual Framework for Biology. Quarterly Review of Biology, 2010, 85, 293-318.	0.0	44
1139	A Decade of Systems Biology. Annual Review of Cell and Developmental Biology, 2010, 26, 721-744.	4.0	277
1142	Translational Systems Approaches to the Biology of Inflammation and Healing. Immunopharmacology and Immunotoxicology, 2010, 32, 181-195.	1.1	78
1144	Hydrodynamic gating for sample introduction on a microfluidic chip. Lab on A Chip, 2010, 10, 1472.	3.1	25
1145	Comparative and Veterinary Pharmacology. Handbook of Experimental Pharmacology, 2010, , .	0.9	13
1146	A Linear Representation of Dynamics of Boolean Networks. IEEE Transactions on Automatic Control, 2010, 55, 2251-2258.	3.6	576
1147	Estimation and robustness analysis of protein networks for cell cycle systems. , 2010, , .		1
1148	Parameter Scanning by Parallel Model Checking with Applications in Systems Biology. , 2010, , .		6

#	Article	IF	CITATIONS
1149	A Nonparametric Approach to Detect Nonlinear Correlation in Gene Expression. Journal of Computational and Graphical Statistics, 2010, 19, 552-568.	0.9	19
1150	Sloppy models, parameter uncertainty, and the role of experimental design. Molecular BioSystems, 2010, 6, 1890.	2.9	114
1151	Of proteins and DNAâ€"proteomic role in the field of chromatin research. Molecular BioSystems, 2010, 6, 30-37.	2.9	4
1152	BioAnalysis: A Framework for Structural and Functional Robustness Analysis of Metabolic Networks. , 2010, , .		4
1153	Minireview: A Tiny Touch: Activation of Cell Signaling Pathways with Magnetic Nanoparticles. Endocrinology, 2010, 151, 451-457.	1.4	64
1154	Modelling the crop: from system dynamics to systems biology. Journal of Experimental Botany, 2010, 61, 2171-2183.	2.4	136
1155	Reachability analysis based model validation in systems biology. , 2010, , .		2
1156	Triggered structural and property changes in polymeric nanomaterials. Chemical Science, 2011, 2, 18-26.	3.7	94
1157	A Continuous-Time, Discrete-State Method for Simulating the Dynamics of Biochemical Systems. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 335-341.	1.9	1
1158	Redundancy creates opportunity in developmental representations. , 2011, , .		3
1159	Modeling signaling pathways in articular cartilage., 2011, 2011, 3712-5.		0
1160	An approach to estimating protein networks of cell cycle based on least-squares methods for periodic signals., 2011,,.		0
1161	Forest Management and the Water Cycle. Ecological Studies, 2011, , .	0.4	14
1162	Control theoretic modeling of a genetic switch. , 2011, , .		0
1163	Interactions of Nucleotide Bases with Decorated Si Surfaces from Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2011, 115, 9146-9156.	1.5	11
1164	Biomarkers in Acute Lung Injuryâ€"Marking Forward Progress. Critical Care Clinics, 2011, 27, 661-683.	1.0	65
1167	Recycling Circuit Simulation Techniques forÂMass-Action Biochemical Kinetics., 2011, , 115-136.		2
1168	Positive Potential Operation of a Cathodic Electrogenerated Chemiluminescence Immunosensor Based on Luminol and Graphene for Cancer Biomarker Detection. Analytical Chemistry, 2011, 83, 3817-3823.	3.2	347

#	Article	IF	Citations
1169	From Ants to Robots and Back: How Robotics Can Contribute to the Study of Collective Animal Behavior. Studies in Computational Intelligence, 2011, , 105-120.	0.7	18
1170	Advances in Plant Virus Evolution: Translating Evolutionary Insights into Better Disease Management. Phytopathology, 2011, 101, 1136-1148.	1.1	83
1171	Comprehensive quantitative analysis of central carbon and aminoâ€acid metabolism in ⟨i⟩Saccharomyces cerevisiae⟨ i⟩ under multiple conditions by targeted proteomics. Molecular Systems Biology, 2011, 7, 464.	3.2	105
1172	Representation, Simulation, and Hypothesis Generation in Graph and Logical Models of Biological Networks. Methods in Molecular Biology, 2011, 759, 465-482.	0.4	6
1173	Network Inference from Time-Dependent Omics Data. Methods in Molecular Biology, 2011, 719, 435-455.	0.4	6
1174	A Survey on Methods for Modeling and Analyzing Integrated Biological Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 943-958.	1.9	50
1175	Constructing gene regulatory networks for long term photosynthetic light acclimation in Arabidopsis thaliana. BMC Bioinformatics, 2011, 12, 335.	1.2	18
1176	A Practical Guide to Genome-Scale Metabolic Models and Their Analysis. Methods in Enzymology, 2011, 500, 509-532.	0.4	45
1177	Towards a Full Quantitative Description of Yeast Metabolism. Methods in Enzymology, 2011, 500, 215-231.	0.4	3
1178	Yeast Systems Biology. Methods in Molecular Biology, 2011, , .	0.4	7
1179	The Plant Plasma Membrane. Plant Cell Monographs, 2011, , .	0.4	11
1180	The Frailty Syndrome: Definition and Natural History. Clinics in Geriatric Medicine, 2011, 27, 1-15.	1.0	1,310
1182	Bio-Inspired Self-Organizing Robotic Systems. Studies in Computational Intelligence, 2011, , .	0.7	7
1183	Basic Sciences of Nuclear Medicine. , 2011, , .		23
1184	A Systems Biology Approach to Cancer: Fractals, Attractors, and Nonlinear Dynamics. OMICS A Journal of Integrative Biology, 2011, 15, 93-104.	1.0	55
1186	In the Spotlight: Biomedical Imaging. IEEE Reviews in Biomedical Engineering, 2011, 4, 9-11.	13.1	1
1188	Data integration and network reconstruction with $\hat{a}^{1}/4$ omics data using Random Forest regression in potato. Analytica Chimica Acta, 2011, 705, 56-63.	2.6	55
1189	Dialectics, systems biology and embryonic induction. Differentiation, 2011, 81, 209-216.	1.0	3

#	Article	IF	CITATIONS
1190	Atrial Fibrillation. Circulation, 2011, 124, 1982-1993.	1.6	225
1191	Systems biology of infectious diseases: a focus on fungal infections. Immunobiology, 2011, 216, 1212-1227.	0.8	30
1192	Robust model matching design methodology for a stochastic synthetic gene network. Mathematical Biosciences, 2011, 230, 23-36.	0.9	16
1193	A dual negative regulation model of Toll-like receptor 4 signaling for endotoxin preconditioning in human endotoxemia. Mathematical Biosciences, 2011, 232, 151-163.	0.9	27
1194	Prediagnostic methods for the hemolysis of herbal medicine injection. Journal of Ethnopharmacology, 2011, 138, 445-450.	2.0	11
1195	The expanding field of plant virus ecology: Historical foundations, knowledge gaps, and research directions. Virus Research, 2011, 159, 84-94.	1.1	113
1196	Managing knowledge assets under conditions of radical change: The case of the pharmaceutical industry. Technovation, 2011, 31, 105-117.	4.2	92
1197	A role for systems epidemiology in tuberculosis research. Trends in Microbiology, 2011, 19, 492-500.	3. 5	71
1198	Allo-network drugs: harnessing allostery in cellular networks. Trends in Pharmacological Sciences, 2011, 32, 686-693.	4.0	132
1199	Redefining plant systems biology: from cell to ecosystem. Trends in Plant Science, 2011, 16, 183-190.	4.3	70
1200	How sulphate-reducing microorganisms cope with stress: lessons from systems biology. Nature Reviews Microbiology, 2011, 9, 452-466.	13.6	169
1201	Implications of informatics approaches in ecological research. Ecological Informatics, 2011, 6, 4-12.	2.3	14
1202	Modelâ€aided learning for adaptive management of natural resources: an evolutionary design perspective. Methods in Ecology and Evolution, 2011, 2, 643-650.	2.2	66
1203	Leveraging Biomarker Platforms and Systems Biology for Rehabilomics and Biologics Effectiveness Research. PM and R, 2011, 3, S139-47.	0.9	25
1204	Metabolic Flux Analysis and Visualization. Journal of Proteome Research, 2011, 10, 3313-3323.	1.8	30
1205	Novel Molecular Events in Oral Carcinogenesis <i>via</i> li>Integrative Approaches. Journal of Dental Research, 2011, 90, 561-572.	2.5	19
1206	Physical approaches to the dynamics of genetic circuits: a tutorial. Contemporary Physics, 2011, 52, 439-464.	0.8	13
1207	Proteome-wide post-translational modification statistics: frequency analysis and curation of the swiss-prot database. Scientific Reports, $2011, 1, \ldots$	1.6	718

#	ARTICLE	IF	Citations
1208	Robustness of metabolic networks: A review of existing definitions. BioSystems, 2011, 106, 1-8.	0.9	47
1209	Vaccine discovery and translation of new vaccine technology. Lancet, The, 2011, 378, 360-368.	6. 3	89
1210	Genomic and Proteomic Medicine in Critical Care. , 2011, , 1377-1386.		0
1211	Translational Oncogenomics and Human Cancer Interactome Networks:. Nature Precedings, 2011, , .	0.1	1
1212	Single Cancer Cell Detection by Near Infrared Microspectroscopy, Infrared Chemical Imaging and Fluorescence Microspectroscopy. Nature Precedings, 2011, , .	0.1	0
1213	Predicting Gene Function by Using Computational Biology Combines with Gene Homology and Co-Expression. Recent Patents on Computer Science, 2011, 4, 44-52.	0.5	0
1214	Recent advances in nano-based electrochemical biosensors application in diagnosis and monitoring of diseases. Frontiers in Bioscience - Elite, 2011, E3, 663-689.	0.9	16
1215	Artificial Neural Networks Technology to Model and Predict Plant Biology Process., 0, , .		17
1216	BIOFUELS: USE OF BIOTECHNOLOGY TO MEET ENERGY CHALLENGES. International Journal of Biomedical Research, 2011, 2, .	0.1	1
1217	The History and Implications of Testing Thalidomide on Animals. The Journal of Philosophy, Science & Law, 2011, 11, 1-32.	0.3	20
1218	Systems Biology of Tumor Cell Migration in 3D: Protein Signaling. , 2011, , 123-149.		0
1219	Synthetic Biology & Bioinformatics Prospects in the Cancer Arena. , 2011, , .		O
1220	Systems Biology Modeling Reveals a Possible Mechanism of the Tumor Cell Death upon Oncogene Inactivation in EGFR Addicted Cancers. PLoS ONE, 2011, 6, e28930.	1.1	9
1221	Chronopharmaceuticals: Hype or Future of Pharmaceutics. Current Pharmaceutical Design, 2011, 17, 1512-1516.	0.9	8
1222	The role of mathematical models of host–pathogen interactions for livestock health and production – a review. Animal, 2011, 5, 895-910.	1.3	10
1223	Computational modelling of maternal interactions with spermatozoa: potentials and prospects. Reproduction, Fertility and Development, 2011, 23, 976.	0.1	5
1224	Temporal complexity in clinical manifestations of lung disease. Journal of Applied Physiology, 2011, 110, 1723-1731.	1.2	55
1227	Environmental and genetic perturbations reveal different networks of metabolic regulation. Molecular Systems Biology, 2011, 7, 563.	3.2	27

#	Article	IF	CITATIONS
1228	Complex systems in pulmonary medicine: a systems biology approach to lung disease. Journal of Applied Physiology, 2011, 110, 1716-1722.	1.2	20
1229	Plant systems biology: network matters. Plant, Cell and Environment, 2011, 34, 535-553.	2.8	70
1230	Applications and trends in systems biology in biochemistry. FEBS Journal, 2011, 278, 2767-2857.	2.2	53
1231	Identification and genetic determination of an early life risk disposition for depressive disorder: Atypical stressâ€related behaviour in early childhood. Australian Journal of Psychology, 2011, 63, 6-17.	1.4	7
1232	Using the dynamic bond to access macroscopically responsive structurally dynamic polymers. Nature Materials, 2011, 10, 14-27.	13.3	1,394
1233	â€~Systems biology' in human exercise physiology: is it something different from integrative physiology?. Journal of Physiology, 2011, 589, 1031-1036.	1.3	24
1234	Systems biology of tuberculosis. Tuberculosis, 2011, 91, 487-496.	0.8	20
1235	Fractal analysis in a systems biology approach to cancer. Seminars in Cancer Biology, 2011, 21, 175-182.	4.3	81
1236	New perspectives in cell communication: Bioelectromagnetic interactions. Seminars in Cancer Biology, 2011, 21, 207-214.	4.3	38
1237	Systems biology beyond networks: Generating order from disorder through self-organization. Seminars in Cancer Biology, 2011, 21, 165-174.	4.3	64
1238	A systems biology approach to the evolution of plant–virus interactions. Current Opinion in Plant Biology, 2011, 14, 372-377.	3.5	31
1239	Multi-scale modeling in biology: How to bridge the gaps between scales?. Progress in Biophysics and Molecular Biology, 2011, 107, 21-31.	1.4	111
1240	Where systems biology meets postharvest. Postharvest Biology and Technology, 2011, 62, 223-237.	2.9	49
1241	A conceptual approach to design livestock production systems for robustness to enhance sustainability. Livestock Science, 2011, 139, 150-160.	0.6	44
1242	Critical perspective on the consequences of the limited availability of kinetic data in metabolic dynamic modelling. IET Systems Biology, 2011, 5, 157-163.	0.8	18
1243	So, you want to be a systems biologist? Determinants for creating graduate curricula in systems biology. IET Systems Biology, 2011, 5, 70-79.	0.8	7
1244	Brute force meets Bruno force in parameter optimisation: introduction of novel constraints for parameter accuracy improvement by symbolic computation. IET Systems Biology, 2011, 5, 281-292.	0.8	1
1245	Addressing parameter identifiability by model-based experimentation. IET Systems Biology, 2011, 5, 120-130.	0.8	126

#	Article	IF	Citations
1246	Structural Measures for Network Biology Using QuACN. BMC Bioinformatics, 2011, 12, 492.	1.2	17
1247	Joint analysis of transcriptional and post-transcriptional brain tumor data: searching for emergent properties of cellular systems. BMC Bioinformatics, 2011, 12, 86.	1.2	8
1248	Protocol: high throughput silica-based purification of RNA from Arabidopsis seedlings in a 96-well format. Plant Methods, 2011, 7, 40.	1.9	8
1249	Metabonomics-based omics study and atherosclerosis. Journal of Clinical Bioinformatics, 2011, 1, 30.	1.2	11
1250	Modeling formalisms in Systems Biology. AMB Express, 2011, 1, 45.	1.4	139
1251	A challenging drug development process in the era of personalized medicine. Drug Discovery Today, 2011, 16, 891-897.	3.2	44
1252	Weak indirect effects inherent to nitrogen biogeochemical cycling within anthropogenic ecosystems: A network environ analysis. Ecological Modelling, 2011, 222, 3277-3284.	1.2	12
1253	Continuous light exposure causes cumulative stress that affects the localization oscillation dynamics of the transcription factor Msn2p. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 358-366.	1.9	25
1254	Methods for Biochemical Model Decomposition and Quantitative Submodel Comparison. Israel Journal of Chemistry, 2011, 51, 151-164.	1.0	3
1255	Analyzing and modeling real-world phenomena with complex networks: a survey of applications. Advances in Physics, 2011, 60, 329-412.	35.9	532
1256	Evolvability and robustness in a complex signalling circuit. Molecular BioSystems, 2011, 7, 1081.	2.9	23
1257	Software for systems biology: from tools to integrated platforms. Nature Reviews Genetics, 2011, 12, 821-832.	7.7	228
1258	Applications of Mass Spectrometry to Lipids and Membranes. Annual Review of Biochemistry, 2011, 80, 301-325.	5.0	177
1259	Reaction Kinetics of Catalyzed Competitive Heteropolymer Cleavage. Journal of Physical Chemistry B, 2011, 115, 11017-11027.	1.2	7
1260	Durable resistance to the wheat rusts: integrating systems biology and traditional phenotype-based research methods to guide the deployment of resistance genes. Euphytica, 2011, 179, 69-79.	0.6	83
1261	The effect of coupled stochastic processes in a two-state biochemical switch. Journal of Biological Physics, 2011, 37, 441-462.	0.7	1
1262	Modeling the action of drugs on cellular enzymes by means of optimal control techniques. Journal of Mathematical Chemistry, 2011, 49, 776-795.	0.7	2
1263	An immune-inspired approach to qualitative system identification of biological pathways. Natural Computing, 2011, 10, 189-207.	1.8	7

#	Article	IF	CITATIONS
1264	Systems biology approaches to abscisic acid signaling. Journal of Plant Research, 2011, 124, 539-548.	1.2	22
1265	Regulatory and metabolic network of rhamnolipid biosynthesis: Traditional and advanced engineering towards biotechnological production. Applied Microbiology and Biotechnology, 2011, 91, 251-264.	1.7	98
1266	A rigorous approach to investigating common assumptions about disease transmission. Theory in Biosciences, 2011, 130, 19-29.	0.6	6
1267	Glucose oxidase as a blocking agent-based signal amplification strategy for the fabrication of label-free amperometric immunosensors. Science China Chemistry, 2011, 54, 536-544.	4.2	2
1268	Oscillations in Biochemical Reaction Networks Arising from Pairs of Subnetworks. Bulletin of Mathematical Biology, 2011, 73, 2277-2304.	0.9	13
1269	Effects of abiotic stress on plants: a systems biology perspective. BMC Plant Biology, 2011, 11, 163.	1.6	1,005
1270	Integrating systems biology models and biomedical ontologies. BMC Systems Biology, 2011, 5, 124.	3.0	44
1271	A systems biology approach to dynamic modeling and inter-subject variability of statin pharmacokinetics in human hepatocytes. BMC Systems Biology, 2011, 5, 66.	3.0	24
1272	Structurally robust biological networks. BMC Systems Biology, 2011, 5, 74.	3.0	67
1273	Systems mapping: how to improve the genetic mapping of complex traits through design principles of biological systems. BMC Systems Biology, 2011, 5, 84.	3.0	41
1274	Fusion of metabolomics and proteomics data for biomarkers discovery: case study on the experimental autoimmune encephalomyelitis. BMC Bioinformatics, 2011, 12, 254.	1.2	66
1275	The living microarray: a high-throughput platform for measuring transcription dynamics in single cells. BMC Genomics, 2011, 12, 115.	1.2	20
1276	Proteomics in chronic kidney disease: The issues clinical nephrologists need an answer for. Proteomics - Clinical Applications, 2011, 5, 233-240.	0.8	20
1277	A multiplex model of combining geneâ€based, proteinâ€based, and metaboliteâ€based with positive and negative markers in urine for the early diagnosis of prostate cancer. Prostate, 2011, 71, 700-710.	1.2	86
1278	Protein-membrane interactions: the virtue of minimal systems in systems biology. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2011, 3, 269-280.	6.6	19
1279	Drug repurposing and adverse event prediction using highâ€throughput literature analysis. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2011, 3, 323-334.	6.6	100
1280	In silico augmentation of the drug development pipeline: examples from the study of acute inflammation. Drug Development Research, 2011, 72, 187-200.	1.4	52
1281	Chemometric analysis of metabolism disorders in blood plasma of S180 and H22 tumorâ€bearing mice by high performance liquid chromatographyâ€diode array detection. Journal of Chemometrics, 2011, 25, 430-440.	0.7	1

#	ARTICLE	IF	CITATIONS
1282	Modeling the cell cycle: From deterministic models to hybrid systems. BioSystems, 2011, 105, 34-40.	0.9	14
1283	A synergic simulation–optimization approach for analyzing biomolecular dynamics in living organisms. Computers in Biology and Medicine, 2011, 41, 24-36.	3.9	17
1284	Dynamics of two-compartment Gray–Scott equations. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 1969-1986.	0.6	13
1285	Pathway knockout and redundancy in metabolic networks. Journal of Theoretical Biology, 2011, 270, 63-69.	0.8	14
1286	METABOLIC NETWORKS ROBUSTNESS: THEORY, SIMULATIONS AND RESULTS. Journal of Interconnection Networks, 2011, 12, 221-240.	0.6	15
1287	Inferring Functional Relationships and Causal Network Structure from Gene Expression Profiles. Methods in Enzymology, 2011, 487, 133-146.	0.4	1
1288	Modeling Metabolic Networks for Mammalian Cell Systems: General Considerations, Modeling Strategies, and Available Tools., 2011, 127, 71-108.		9
1289	Evaluation of design strategies for time course experiments in genetic networks. , 2011, , .		O
1290	Connecting the virtual world of computers to the real world of medicinal chemistry. Future Medicinal Chemistry, 2011, 3, 399-403.	1.1	0
1291	Targeting antibodies to the cytoplasm. MAbs, 2011, 3, 3-16.	2.6	93
1292	The effect of narrow bandwidth infrared radiation on the growth of Escherichia coli. Applied Physics Letters, 2011, 99, 163704.	1.5	8
1293	Semantic systems biology., 2011,,.		0
1294	Computing Atom Mappings for Biochemical Reactions without Subgraph Isomorphism. Journal of Computational Biology, 2011, 18, 43-58.	0.8	24
1295	Functional Gene Detection and Clustering from Seed Gene Sets. , 2011, , .		0
1297	Capillary fractionation of HPLC substrates by a microfluidic droplet generator for high throughput analysis., 2011, 2011, 8396-9.		2
1298	Multistability and robustness of the MAPK pathway. , 2011, , .		1
1299	A probabilistic approach to identify putative drug targets in biochemical networks. Journal of the Royal Society Interface, 2011, 8, 880-895.	1.5	41
1300	Bond energy effects on strength, cooperativity and robustness of molecular structures. Interface Focus, 2011, 1, 734-743.	1.5	9

#	Article	IF	CITATIONS
1301	Proteomics and Systems Biology: Current and Future Applications in the Nutritional Sciences. Advances in Nutrition, 2011, 2, 355-364.	2.9	34
1302	Radiation-induced perturbation of cell-to-cell signalling and communication. Radiation Protection Dosimetry, 2011, 143, 294-300.	0.4	11
1303	Fine-Grained Parallel and Distributed Spatial Stochastic Simulation of Biological Reactions. Advanced Materials Research, 0, 345, 104-112.	0.3	1
1304	VirtualLeaf: An Open-Source Framework for Cell-Based Modeling of Plant Tissue Growth and Development Â. Plant Physiology, 2011, 155, 656-666.	2.3	132
1305	Hormone Transport. Plant Cell Monographs, 2011, , 379-397.	0.4	3
1306	Modeling Biochemical Pathways. , 2011, , 111-126.		0
1307	On the Interplay between the Evolvability and Network Robustness in an Evolutionary Biological Network: A Systems Biology Approach. Evolutionary Bioinformatics, 2011, 7, EBO.S8123.	0.6	16
1308	Novel hub protein classification and interaction rules in protein-protein interaction network in Saccharomyces cerevisia. , 2011 , , .		0
1309	Modeling Reveals That Dynamic Regulation of c-FLIP Levels Determines Cell-to-Cell Distribution of CD95-mediated Apoptosis. Journal of Biological Chemistry, 2011, 286, 18375-18382.	1.6	16
1310	MrBac: A web server for draft metabolic network reconstructions for bacteria. Bioengineered Bugs, 2011, 2, 284-287.	2.0	8
1311	Controlled vocabularies and semantics in systems biology. Molecular Systems Biology, 2011, 7, 543.	3.2	246
1312	Plant sexual reproduction during climate change: gene function in natura studied by ecological and evolutionary systems biology. Annals of Botany, 2011, 108, 777-787.	1.4	71
1314	NOA: a novel Network Ontology Analysis method. Nucleic Acids Research, 2011, 39, e87-e87.	6.5	101
1315	Reductionistic and Holistic Science. Infection and Immunity, 2011, 79, 1401-1404.	1.0	128
1317	Optimisation of process algebra models using evolutionary computation., 2011,,.		6
1318	A Topographical Map of the Causal Network of Mechanisms Underlying the Relationship Between Major Depressive Disorder and Coronary Heart Disease. Australian and New Zealand Journal of Psychiatry, 2011, 45, 351-369.	1.3	86
1319	Computational Oncology. Japanese Journal of Clinical Oncology, 2011, 41, 937-947.	0.6	9
1320	BIG DATA, VISUALIZATION, AND DATA-DRIVEN SIMULATIONS. , 2011, , 199-208.		0

#	Article	IF	CITATIONS
1321	Automated estimation of rare event probabilities in biochemical systems. Journal of Chemical Physics, 2011, 134, 044110.	1.2	45
1322	Modeling of Regulatory Networks. Methods in Enzymology, 2011, 487, 39-71.	0.4	2
1323	Is the whole the sumof its parts? Agent-basedmodelling of wastewater treatment systems. Water Science and Technology, 2011, 63, 1590-1598.	1.2	10
1324	A Renewable and Ultrasensitive Electrochemiluminescence Immunosenor Based on Magnetic RuL@SiO2-Au~RuL-Ab2 Sandwich-Type Nano-Immunocomplexes. Sensors, 2011, 11, 7749-7762.	2.1	12
1325	Affective Disorders as Complex Dynamic Diseases – a Perspective from Systems Biology. Pharmacopsychiatry, 2011, 44, S2-S8.	1.7	28
1326	Nanobiosensors Based on Localized Surface Plasmon Resonance for Biomarker Detection. Journal of Nanomaterials, 2012, 2012, 1-13.	1.5	96
1327	Crosstalk and Signaling Switches in Mitogen-Activated Protein Kinase Cascades. Frontiers in Physiology, 2012, 3, 355.	1.3	137
1328	Optimal Control of Gene Mutation in DNA Replication. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-26.	3.0	1
1329	Mesoscopic Models of Neurotransmission as Intermediates between Disease Simulators and Tools for Discovering Design Principles. Pharmacopsychiatry, 2012, 45, S22-S30.	1.7	18
1330	MOfinder: A Novel Algorithm for Detecting Overlapping Modules from Protein-Protein Interaction Network. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-10.	3.0	7
1331	Cancer cell growth and survival as a system-level property sustained by enhanced glycolysis and mitochondrial metabolic remodeling. Frontiers in Physiology, 2012, 3, 362.	1.3	24
1332	A Framework for Modeling the Relationship Between Cellular Steady-state and Stimulus-responsiveness. Methods in Cell Biology, 2012, 110, 81-109.	0.5	7
1333	Discovering the hidden sub-network component in a ranked list of genes or proteins derived from genomic experiments. Nucleic Acids Research, 2012, 40, e158-e158.	6. 5	22
1334	Modelling ecological systems in a changing world. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 181-190.	1.8	145
1335	Reverse engineering biomolecular systems using -omic data: challenges, progress and opportunities. Briefings in Bioinformatics, 2012, 13, 430-445.	3.2	19
1336	Rewiring drug-activated p53-regulatory network from suppressing to promoting tumorigenesis. Journal of Molecular Cell Biology, 2012, 4, 197-206.	1.5	11
1337	Event extraction across multiple levels of biological organization. Bioinformatics, 2012, 28, i575-i581.	1.8	107
1338	Label-Free Enrichment of Adrenal Cortical Progenitor Cells Using Inertial Microfluidics. PLoS ONE, 2012, 7, e46550.	1.1	48

#	Article	IF	CITATIONS
1339	Animal models in an age of personalized medicine. Personalized Medicine, 2012, 9, 47-64.	0.8	25
1340	From Ontology-Based Gene Function to Physiological Model. Current Bioinformatics, 2012, 7, 436-446.	0.7	2
1341	RobExT., 2012,,.		0
1342	A molecular assay of tumor radiosensitivity: a roadmap towards biology-based personalized radiation therapy. Personalized Medicine, 2012, 9, 547-557.	0.8	71
1343	Towards an Experimental and Systems Biology Framework for Cancer Cell Therapeutics. Current Bioinformatics, 2012, 7, 490-504.	0.7	0
1344	Optimal control of finite-valued networks. , 2012, , .		4
1345	Comparative analysis of C3 and C4 plants using constraint-based model., 2012,,.		0
1346	A theoretical approach to gene network identification. , 2012, , .		1
1347	Quantitative analysis of redundancy in evolution of developmental systems. , 2012, , .		3
1348	Quantifying crosstalk in biochemical systems. , 2012, , .		12
1349	PINNING IMPULSIVE STABILIZATION OF NONLINEAR DYNAMICAL NETWORKS WITH TIME-VARYING DELAY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250176.	0.7	195
1350	Region of attraction estimation of biological continuous Boolean models. , 2012, , .		4
1351	How Evolutionary Systems Biology Will Help Understand Adaptive Landscapes and Distributions of Mutational Effects. Advances in Experimental Medicine and Biology, 2012, 751, 399-410.	0.8	5
1352	Background gene expression networks significantly enhance drug response prediction by transcriptional profiling. Pharmacogenomics Journal, 2012, 12, 446-452.	0.9	7
1353	Electron attachment to antipyretics: Possible implications of their metabolic pathways. Journal of Chemical Physics, 2012, 136, 234307.	1.2	20
1354	Epigenetic transgenerational inheritance of altered stress responses. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9143-9148.	3.3	285
1355	On the performance of particle swarm optimization for parameterizing kinetic models of cellular networks. , 2012, , .		0
1357	Automatic Algorithm Selection for Complex Simulation Problems. , 2012, , .		9

#	Article	IF	CITATIONS
1358	Micro-Macro Modeling for Systems Biology with MR-DEVS. Applied Mechanics and Materials, 2012, 220-223, 2975-2982.	0.2	0
1359	Stress-sensitive neurosignalling in depression: an integrated network biology approach to candidate gene selection for genetic association analysis. Mental Illness, 2012, 4, 105-114.	0.8	3
1360	BioNetwork Bench: Database and Software for Storage, Query, and Analysis of Gene and Protein Networks. Bioinformatics and Biology Insights, 2012, 6, BBI.S9728.	1.0	0
1361	EvoluCode: Evolutionary Barcodes as a Unifying Framework for Multilevel Evolutionary Data. Evolutionary Bioinformatics, 2012, 8, EBO.S8814.	0.6	4
1362	Basic research in HIV vaccinology is hampered by reductionist thinking. Frontiers in Immunology, 2012, 3, 194.	2.2	59
1363	Massively parallel measurements of molecular interaction kinetics on a microfluidic platform. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16540-16545.	3.3	99
1364	Computational Modelling of Schizophrenic Symptoms: Basic Issues. Pharmacopsychiatry, 2012, 45, S2-S11.	1.7	2
1365	Comprehensive estimation of input signals and dynamics in biochemical reaction networks. Bioinformatics, 2012, 28, i529-i534.	1.8	33
1366	Integrative System Biology Strategies for Disease Biomarker Discovery. Combinatorial Chemistry and High Throughput Screening, 2012, 15, 286-298.	0.6	6
1367	Application of Supervisory Control Theory to Guide Cellular Dynamics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 384-389.	0.4	5
1369	Some Perspectives and Challenges in the (Discrete) Control of Cellular Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1-3.	0.4	4
1370	Systems Biology Approaches and Metabolomics for Understanding Japanese Traditional Kampo Medicine. Current Pharmacogenomics and Personalized Medicine, 2012, 10, 111-124.	0.2	8
1371	In silico strain optimization by adding reactions to metabolic models. Journal of Integrative Bioinformatics, 2012, 9, 44-56.	1.0	0
1372	Systems Biology and Biomechanical Model of Heart Failure. Current Cardiology Reviews, 2012, 8, 220-230.	0.6	17
1373	A two-compartment mathematical model of endotoxin-induced inflammatory and physiologic alterations in swine*. Critical Care Medicine, 2012, 40, 1052-1063.	0.4	72
1374	Network systems biology for targeted cancer therapies. Chinese Journal of Cancer, 2012, 31, 134-141.	4.9	24
1375	Biomolecular Pathway Modeling. , 2012, , 55-84.		0
1376	The importance of quantitative systemic thinking in medicine. Lancet, The, 2012, 379, 1551-1559.	6.3	42

#	Article	IF	CITATIONS
1377	Future medicine shaped by an interdisciplinary new biology. Lancet, The, 2012, 379, 1544-1550.	6.3	17
1378	Parameter Estimation Using Metaheuristics in Systems Biology: A Comprehensive Review. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 185-202.	1.9	112
1379	Evaluation of Design Strategies for Time Course Experiments in Genetic Networks: Case Study of the XInR Regulon in Aspergillus niger. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1316-1325.	1.9	4
1380	Towards multiscale plant models: integrating cellular networks. Trends in Plant Science, 2012, 17, 728-736.	4.3	44
1382	An adaptive stepsize method for the chemical Langevin equation. Journal of Chemical Physics, 2012, 136, 184101.	1.2	12
1383	Systems Biology, Bioinformatics, and Biomarkers in Neuropsychiatry. Frontiers in Neuroscience, 2012, 6, 187.	1.4	41
1384	A global "imaging'' view on systems approaches in immunology. European Journal of Immunology, 201 42, 3116-3125.	1.6 1.6	32
1385	Systems biology tools for toxicology. Archives of Toxicology, 2012, 86, 1251-1271.	1.9	41
1386	Experimental â€~omics' data in tree research: facing complexity. Trees - Structure and Function, 2012, 26, 1723-1735.	0.9	15
1387	Development of biomarkers to chart all Alzheimer's disease stages: TheÂroyal road to cutting the therapeutic Gordian Knot. Alzheimer's and Dementia, 2012, 8, 312-336.	0.4	112
1388	Restricted cooperative games on metabolic networks reveal functionally important reactions. Journal of Theoretical Biology, 2012, 314, 192-203.	0.8	12
1389	Integrating tracer-based metabolomics data and metabolic fluxes in a linear fashion via Elementary Carbon Modes. Metabolic Engineering, 2012, 14, 344-353.	3.6	10
1390	Perceptual control architecture for cyber–physical systems in traffic incident management. Journal of Systems Architecture, 2012, 58, 398-411.	2.5	22
1391	On Parameter Synthesis by Parallel Model Checking. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 693-705.	1.9	38
1392	Partitioning on Dynamic Behavior for Parallel Discrete Event Simulation. , 2012, , .		11
1393	Information Processing: Rate-Based Investigation of Cell Physiological Changes along Design Space Development. PDA Journal of Pharmaceutical Science and Technology, 2012, 66, 526-541.	0.3	20
1394	Refactoring the nitrogen fixation gene cluster from <i>Klebsiella oxytoca </i> Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7085-7090.	3.3	352
1395	Strategic Optimization of Computation Nodes Allocation in a Coupled Simulation: Computational Fluid Dyanmics and Aero Acoustic Simulations. , 2012, , .		1

#	Article	IF	CITATIONS
1396	Crop systems biology as an avenue to bridge applied crop science and fundamental plant biology. , 2012, , .		2
1397	Dual-Signal Amplification Strategy for Ultrasensitive Photoelectrochemical Immunosensing of α-Fetoprotein. Analytical Chemistry, 2012, 84, 10492-10499.	3.2	179
1398	Ensemble Bayesian Analysis of Bistability in a Synthetic Transcriptional Switch. ACS Synthetic Biology, 2012, 1, 299-316.	1.9	53
1400	Construction of large signaling pathways using an adaptive perturbation approach with phosphoproteomic data. Molecular BioSystems, 2012, 8, 1571.	2.9	15
1401	Robustness analysis of 10-dimensional cell cycle systems based on periodic sensitivity. , 2012, , .		0
1402	Directed Self-Assembly of Metallosupramolecular Polymers at the Polymer–Polymer Interface. ACS Macro Letters, 2012, 1, 882-887.	2.3	28
1403	Use of Negative Dielectrophoresis for Selective Elution of Protein-Bound Particles. Analytical Chemistry, 2012, 84, 1432-1438.	3.2	33
1404	MATHEMATICAL AND COMPUTATIONAL MODELLING OF RIBOSOMAL MOVEMENT AND PROTEIN SYNTHESIS: AN OVERVIEW. Computational and Structural Biotechnology Journal, 2012, 1, e201204002.	1.9	70
1405	Construction and analysis of genome-wide SNP networks. , 2012, , .		0
1406	A review of current proteomics technologies with a survey on their widespread use in reproductive biology investigations. Theriogenology, 2012, 77, 738-765.e52.	0.9	7 3
1407	Intracellular Energetic Units regulate metabolism in cardiac cells. Journal of Molecular and Cellular Cardiology, 2012, 52, 419-436.	0.9	53
1408	Physiological regulatory networks: ecological roles and evolutionary constraints. Trends in Ecology and Evolution, 2012, 27, 428-435.	4.2	177
1409	Computational systems biology and in silico modeling of the human microbiome. Briefings in Bioinformatics, 2012, 13, 769-780.	3.2	83
1410	Hive plotsrational approach to visualizing networks. Briefings in Bioinformatics, 2012, 13, 627-644.	3.2	187
1411	Merging experimental data and <i>in silico </i> analysis: a systems-level approach to autoimmune disease and cancer. Expert Review of Clinical Immunology, 2012, 8, 361-372.	1.3	8
1412	Bridging experiments, models and simulations: an integrative approach to validation in computational cardiac electrophysiology. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H144-H155.	1.5	88
1413	On the evolution of morphogenetic models: mechanoâ€chemical interactions and an integrated view of cell differentiation, growth, pattern formation and morphogenesis. Biological Reviews, 2012, 87, 786-803.	4.7	30
1414	Harnessing pain heterogeneity and RNA transcriptome to identify bloodâ€based pain biomarkers: a novel correlational study design and bioinformatics approach in a graded chronic constriction injury model. Journal of Neurochemistry, 2012, 122, 976-994.	2.1	40

#	Article	IF	CITATIONS
1415	A conceptual paradigm of heart failure and systems biology approach. International Journal of Cardiology, 2012, 159, 5-13.	0.8	11
1416	Solving dynamical inverse problems by means of Metabolic P systems. BioSystems, 2012, 109, 78-86.	0.9	24
1417	Future perspectives of personalized medicine in traditional Chinese medicine: A systems biology approach. Complementary Therapies in Medicine, 2012, 20, 93-99.	1.3	99
1418	Design of a framework for modeling, integration and simulation of physiological models. Computer Methods and Programs in Biomedicine, 2012, 107, 524-537.	2.6	11
1419	At the heart of computational modelling. Journal of Physiology, 2012, 590, 1331-1338.	1.3	23
1420	Modeling gene regulatory network motifs using statecharts. BMC Bioinformatics, 2012, 13, S20.	1.2	8
1421	Investigating the effects of perturbations to pgi and eno gene expression on central carbon metabolism in Escherichia coli using 13 C metabolic flux analysis. Microbial Cell Factories, 2012, 11, 87.	1.9	47
1422	Animal models and conserved processes. Theoretical Biology and Medical Modelling, 2012, 9, 40.	2.1	35
1423	Harnessing the complexity of gene expression data from cancer: from single gene to structural pathway methods. Biology Direct, 2012, 7, 44.	1.9	23
1424	Clarifying off-target effects for torcetrapib using network pharmacology and reverse docking approach. BMC Systems Biology, 2012, 6, 152.	3.0	32
1425	Dynamic regulatory on/off minimization for biological systems under internal temporal perturbations. BMC Systems Biology, 2012, 6, 16.	3.0	32
1426	Gene regulation is governed by a core network in hepatocellular carcinoma. BMC Systems Biology, 2012, 6, 32.	3.0	13
1427	Centrality-based pathway enrichment: a systematic approach for finding significant pathways dominated by key genes. BMC Systems Biology, 2012, 6, 56.	3.0	69
1428	Dynamic optimization of distributed biological systems using robust and efficient numerical techniques. BMC Systems Biology, 2012, 6, 79.	3.0	11
1429	Condor-COPASI: high-throughput computing for biochemical networks. BMC Systems Biology, 2012, 6, 91.	3.0	44
1430	The Cell Collective: Toward an open and collaborative approach to systems biology. BMC Systems Biology, 2012, 6, 96.	3.0	199
1432	From genotype to phenotype: can systems biology be used to predict Staphylococcus aureus virulence?. Nature Reviews Microbiology, 2012, 10, 791-797.	13.6	62
1433	Complex Network Analysis in Microbial Systems: Theory and Examples. Methods in Molecular Biology, 2012, 881, 551-571.	0.4	2

#	Article	IF	CITATIONS
1434	The impact of CDK inhibition in human malignancies associated with pronounced defects in apoptosis: advantages of multi-targeting small molecules. Future Medicinal Chemistry, 2012, 4, 395-424.	1.1	7
1435	A Swarm Intelligence Framework for Reconstructing Gene Networks: Searching for Biologically Plausible Architectures. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 358-371.	1.9	50
1436	The study of protein–protein interactions in bacteria. Canadian Journal of Microbiology, 2012, 58, 1241-1257.	0.8	8
1437	The human extended mitochondrial metabolic network: New hubs from lipids. BioSystems, 2012, 109, 151-158.	0.9	3
1438	From Systems Biology to Systems Biomedicine. Current Opinion in Biotechnology, 2012, 23, 604-608.	3.3	24
1439	Global dissipative dynamics of the extended Brusselator system. Nonlinear Analysis: Real World Applications, 2012, 13, 2767-2789.	0.9	6
1440	Computational study of the mechanism of Bcl-2 apoptotic switch. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 6212-6225.	1.2	7
1441	Irreversibility in biophysical and biochemical engineering. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 5997-6007.	1.2	38
1442	Introduction to Network Biology. , 2012, , 1-13.		1
1443	The multicellular tumor spheroid model for high-throughput cancer drug discovery. Expert Opinion on Drug Discovery, 2012, 7, 819-830.	2.5	215
1444	Factors Involved in Signal Transduction During Vertebrate Myogenesis. International Review of Cell and Molecular Biology, 2012, 296, 187-272.	1.6	6
1445	Application of a systems approach to study developmental gene regulation. Biophysical Reviews, 2012, 4, 245-253.	1.5	2
1446	Chaperone Probes and Bead-Based Enhancement To Improve the Direct Detection of mRNA Using Silicon Photonic Sensor Arrays. Analytical Chemistry, 2012, 84, 8067-8074.	3.2	24
1447	Quantitative Model Refinement as a Solution to the Combinatorial Size Explosion of Biomodels. Electronic Notes in Theoretical Computer Science, 2012, 284, 35-53.	0.9	5
1448	Mass Spectrometry in Agriculture, Food, and Flavors: Selected Applications. , 2012, , 529-558.		0
1449	Systems Biology of Parkinson's Disease. , 2012, , .		8
1450	Psychiatric Disorders. Methods in Molecular Biology, 2012, , .	0.4	3
1451	Immunoassay for SKOV-3 human ovarian carcinoma cells using a graphene oxide-modified electrode. Mikrochimica Acta, 2012, 179, 201-207.	2.5	11

#	ARTICLE	IF	CITATIONS
1452	Microbial Systems Biology. Methods in Molecular Biology, 2012, , .	0.4	3
1453	Modular Analysis of Biological Networks. Advances in Experimental Medicine and Biology, 2012, 736, 3-17.	0.8	27
1454	Shaping the Future of ICT Research. Methods and Approaches. International Federation for Information Processing, 2012, , .	0.4	3
1455	Comparative Analysis of Biological Networks: Hidden Markov model and Markov chain-based approach. IEEE Signal Processing Magazine, 2012, 29, 22-34.	4.6	23
1457	Effect-Based Tools for Monitoring and Predicting the Ecotoxicological Effects of Chemicals in the Aquatic Environment. Sensors, 2012, 12, 12741-12771.	2.1	209
1458	Cellâ€eycle regulation of NOTCH signaling during <i>C. elegans</i> vulval development. Molecular Systems Biology, 2012, 8, 618.	3.2	39
1459	Genomics and Systems Biology of Mammalian Cell Culture. , 2012, , .		5
1460	Role of fatty acid-based functional lipidomics in the development of molecular diagnostic tools. Expert Review of Molecular Diagnostics, 2012, 12, 767-780.	1.5	75
1461	Evolutionary Systems Biology. Advances in Experimental Medicine and Biology, 2012, , .	0.8	31
1462	Systematic Comparison of C3 and C4 Plants Based on Metabolic Network Analysis. BMC Systems Biology, 2012, 6, S9.	3.0	72
1463	A checkpoints capturing timing-robust Boolean model of the budding yeast cell cycle regulatory network. BMC Systems Biology, 2012, 6, 129.	3.0	12
1464	Systems Metabolic Engineering., 2012,,.		11
1465	Prediction of Muscle Energy States at Low Metabolic Rates Requires Feedback Control of Mitochondrial Respiratory Chain Activity by Inorganic Phosphate. PLoS ONE, 2012, 7, e34118.	1.1	26
1466	Characterizing Multistationarity Regimes in Biochemical Reaction Networks. PLoS ONE, 2012, 7, e39194.	1.1	27
1467	Using Networks To Understand Medical Data: The Case of Class III Malocclusions. PLoS ONE, 2012, 7, e44521.	1.1	12
1468	Grand Challenges in Plant Systems Biology: Closing the Circle(s). Frontiers in Plant Science, 2012, 3, 35.	1.7	17
1469	Construction of a Genome-Scale Kinetic Model of Mycobacterium Tuberculosis Using Generic Rate Equations. Metabolites, 2012, 2, 382-397.	1.3	5
1470	Optimality Principles in the Regulation of Metabolic Networks. Metabolites, 2012, 2, 529-552.	1.3	11

#	Article	IF	CITATIONS
1471	When One and One Gives More than Two: Challenges and Opportunities of Integrative Omics. Frontiers in Genetics, 2012, 2, 105.	1.1	30
1472	Act togetherâ€"implications of symbioses in aquatic ciliates. Frontiers in Microbiology, 2012, 3, 288.	1.5	56
1473	Somatic populations of PGT135–137 HIV-1-neutralizing antibodies identified by 454 pyrosequencing and bioinformatic. Frontiers in Microbiology, 2012, 3, 315.	1.5	70
1474	Tinnitus: network pathophysiology-network pharmacology. Frontiers in Systems Neuroscience, 2012, 6, 1.	1.2	120
1475	Sepsis: From Pattern to Mechanism and Back. Critical Reviews in Biomedical Engineering, 2012, 40, 341-351.	0.5	28
1476	Intelligent Data Analysis for Knowl edge Discovery, Patient Monitoring and Quality Assessment. Methods of Information in Medicine, 2012, 51, 318-322.	0.7	9
1477	A Critical Evaluation of Clinical Trials in Cancer and Pharmacogenomics. Nature Precedings, 2012, , .	0.1	0
1478	A Transcriptome- and Marker-Based Systemic Analysis of Cervical Cancer. , 2012, , .		2
1479	Multiplexed Immunoassays. , 2012, , .		2
1480	Host Genetics and Resistance to HIV-1 Infection. , 2012, , 169-209.		1
1481	Modeling Physiologic Variability in Human Endotoxemia. Critical Reviews in Biomedical Engineering, 2012, 40, 313-322.	0.5	19
1482	From Reductionism to Holism: Systems-oriented Approaches in Cancer Research. Global Advances in Health and Medicine, 2012, 1, 68-77.	0.7	15
1483	Hydrogen Bonds and Stacking Interactions on the DNA Structure: A Topological View of Quantum Computing. , 2012, , .		0
1484	An estimation method for inference of gene regulatory net-work using Bayesian network with uniting of partial problems. BMC Genomics, 2012, 13, S12.	1.2	11
1485	Engineering Systems Multipleâ€Domain Matrix: An organizing framework for modeling largeâ€scale complex systems. Systems Engineering, 2012, 15, 41-61.	1.6	83
1486	Complexity and the reductionism–holism debate in systems biology. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2012, 4, 413-427.	6.6	68
1487	The methylproteome and the intracellular methylation network. Proteomics, 2012, 12, 564-586.	1.3	73
1488	Computational structural analysis of protein interactions and networks. Proteomics, 2012, 12, 1697-1705.	1.3	14

#	Article	IF	Citations
1489	Piecewise affine approximations of fluxes and enzyme kinetics from <i>in vivo</i> ¹³ C labeling experiments. International Journal of Robust and Nonlinear Control, 2012, 22, 1120-1139.	2.1	22
1490	Development of Petri Net-Based Dynamic Model for Improved Production of Farnesyl Pyrophosphate by Integrating Mevalonate and Methylerythritol Phosphate Pathways in Yeast. Applied Biochemistry and Biotechnology, 2012, 167, 1172-1182.	1.4	3
1491	Target/s Identification Approaches – Experimental Biological Approaches. RSC Drug Discovery Series, 2012, , 94-110.	0.2	0
1492	A Whole-Cell Computational Model Predicts Phenotype from Genotype. Cell, 2012, 150, 389-401.	13.5	1,177
1493	The ERBB network: at last, cancer therapy meets systems biology. Nature Reviews Cancer, 2012, 12, 553-563.	12.8	766
1494	Evolutionary Systems Biology: Historical and Philosophical Perspectives on an Emerging Synthesis. Advances in Experimental Medicine and Biology, 2012, 751, 1-28.	0.8	11
1495	Model-Based Design of Superior Cell Factory: An Illustrative Example of Penicillium chrysogenum. , 2012, , 221-270.		3
1496	The Limitations of Hierarchical Organization. Philosophy of Science, 2012, 79, 120-140.	0.5	99
1497	Shortâ€ŧerm information processing, longâ€ŧerm responses: Insights by mathematical modeling of signal transduction. BioEssays, 2012, 34, 542-550.	1.2	16
1498	Metabolic network modeling and simulation for drug targeting and discovery. Biotechnology Journal, 2012, 7, 330-342.	1.8	49
1499	Tissue Proteomics by One-Dimensional Gel Electrophoresis Combined with Label-Free Protein Quantification. Journal of Proteome Research, 2012, 11, 3680-3689.	1.8	43
1500	Towards systems materials engineering. Nature Materials, 2012, 11, 560-563.	13.3	255
1501	Plant Defense Compounds: Systems Approaches to Metabolic Analysis. Annual Review of Phytopathology, 2012, 50, 155-173.	3.5	46
1502	Oscillations in non-mass action kinetics models of biochemical reaction networks arising from pairs of subnetworks. Journal of Mathematical Chemistry, 2012, 50, 1111-1125.	0.7	5
1503	Modeling nanoparticle uptake and intracellular distribution using stochastic process algebras. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	14
1504	Systems immunology: a survey of modeling formalisms, applications and simulation tools. Immunologic Research, 2012, 53, 251-265.	1.3	37
1505	Systems biology of yeast cell death. FEMS Yeast Research, 2012, 12, 249-265.	1.1	51
1506	Designing biological systems: Systems Engineering meets Synthetic Biology. Chemical Engineering Science, 2012, 69, 1-29.	1.9	79

#	Article	IF	CITATIONS
1507	Combining bootstrap and uninformative variable elimination: Chemometric identification of metabonomic biomarkers by nonparametric analysis of discriminant partial least squares. Chemometrics and Intelligent Laboratory Systems, 2012, 115, 37-43.	1.8	16
1508	Identification of major responding proteins of abnormal leaf and flower in soybean with an integrative "omics―strategy. Computers and Electrical Engineering, 2012, 38, 3-10.	3.0	1
1509	Systems biology impact on antiepileptic drug discovery. Epilepsy Research, 2012, 98, 104-115.	0.8	34
1510	Layer-by-layer assembly of chemical reduced graphene and carbon nanotubes for sensitive electrochemical immunoassay. Biosensors and Bioelectronics, 2012, 35, 63-68.	5.3	150
1511	Behavioral robustness: An emergent phenomenon by means of distributed mechanisms and neurodynamic determinacy. BioSystems, 2012, 107, 34-51.	0.9	5
1512	Sepsis: Something old, something new, and a systems view. Journal of Critical Care, 2012, 27, 314.e1-314.e11.	1.0	95
1513	Development of systems biology-oriented biomarkers by permuted stepwise regression for the monitoring of seasonal allergic rhinitis treatment effects. Journal of Immunological Methods, 2012, 378, 62-71.	0.6	6
1514	Exploring the gap between dynamic and constraint-based models of metabolism. Metabolic Engineering, 2012, 14, 112-119.	3.6	33
1515	Close Encounters of the Collaborative Kind. Computer, 2012, 45, 24-30.	1.2	6
1516	Systems genetics: challenges and developing strategies. Biologia (Poland), 2012, 67, 435-446.	0.8	3
1517	Brain cancer prognosis: independent validation of a clinical bioinformatics approach. Journal of Clinical Bioinformatics, 2012, 2, 2.	1.2	2
1518	Integrated Perspective for Effective Bioremediation. Applied Biochemistry and Biotechnology, 2012, 166, 903-924.	1.4	66
1519	Tools for protein-protein interaction network analysis in cancer research. Clinical and Translational Oncology, 2012, 14, 3-14.	1.2	35
1520	Waddington redux: models and explanation in stem cell and systems biology. Biology and Philosophy, 2012, 27, 179-213.	0.7	42
1521	Data mining in the Life Sciences with Random Forest: a walk in the park or lost in the jungle?. Briefings in Bioinformatics, 2013, 14, 315-326.	3.2	324
1522	Mathematical modeling of apoptosis. Cell Communication and Signaling, 2013, 11, 44.	2.7	39
1523	Carbon nanosphere-functionalized graphene nanosheets for sensing biomolecules based on platinum nanoflower labeling. Analytical Methods, 2013, 5, 3379.	1.3	8
1524	Systems Biology of Apoptosis. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
1525	Catabolite regulation analysis of Escherichia coli for acetate overflow mechanism and co-consumption of multiple sugars based on systems biology approach using computer simulation. Journal of Biotechnology, 2013, 168, 155-173.	1.9	34
1526	Synaptic Proteins. , 2013, , 2034-2036.		0
1527	Predicting the future: Towards symbiotic computational and experimental angiogenesis research. Experimental Cell Research, 2013, 319, 1240-1246.	1.2	27
1528	Predictive modelling of complex agronomic and biological systems. Plant, Cell and Environment, 2013, 36, 1700-1710.	2.8	14
1529	Graphene-based nanoprobes and a prototype optical biosensing platform. Biosensors and Bioelectronics, 2013, 50, 251-255.	5. 3	36
1530	Systems Biology Characterization of Engineered Tissues. Annual Review of Biomedical Engineering, 2013, 15, 55-70.	5.7	13
1531	Microbial community responses to anthropogenically induced environmental change: towards a systems approach. Ecology Letters, 2013, 16, 128-139.	3.0	258
1532	eFindSite: Improved prediction of ligand binding sites in protein models using meta-threading, machine learning and auxiliary ligands. Journal of Computer-Aided Molecular Design, 2013, 27, 551-567.	1.3	66
1533	Optimization and model reduction in the high dimensional parameter space of a budding yeast cell cycle model. BMC Systems Biology, 2013, 7, 53.	3.0	23
1534	BiNoM 2.0, a Cytoscape plugin for accessing and analyzing pathways using standard systems biology formats. BMC Systems Biology, 2013, 7, 18.	3.0	50
1535	Multilevel omic data integration in cancer cell lines: advanced annotation and emergent properties. BMC Systems Biology, 2013, 7, 14.	3.0	55
1536	Predictive Microbiology in Foods. , 2013, , .		45
1537	Bringing Big Data to Personalized Healthcare: A Patient-Centered Framework. Journal of General Internal Medicine, 2013, 28, 660-665.	1.3	335
1538	Dynamics of Influenza Virus and Human Host Interactions During Infection and Replication Cycle. Bulletin of Mathematical Biology, 2013, 75, 988-1011.	0.9	26
1539	High-density immobilization of antibodies onto nanobead-coated cyclic olefin copolymer plastic surfaces for application as a sensitive immunoassay chip. Biomedical Microdevices, 2013, 15, 691-698.	1.4	13
1540	Systems Biology., 2013,,.		9
1541	The emergence of Semantic Systems Biology. New Biotechnology, 2013, 30, 286-290.	2.4	3
1542	Core network identification using parametric sensitivity and multi-way principal component analysis in NFkB signaling network. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 724-733.	2.7	1

#	Article	IF	CITATIONS
1543	Systems Biology. , 2013, , 2054-2054.		0
1544	Controllability of time-variant Boolean control networks and its application to Boolean control networks with finite memories. Science China Information Sciences, 2013, 56, 1-12.	2.7	13
1545	Comparing Biological Networks: A Survey on Graph Classifying Techniques. , 2013, , 43-63.		4
1546	Hierarchical approaches for systems modeling in cardiac development. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 289-305.	6.6	8
1548	In vitro regulatory models for systems biology. Biotechnology Advances, 2013, 31, 789-796.	6.0	13
1549	Sensitive ECL immunosensor for detection of retinol-binding protein based on double-assisted signal amplification strategy of multiwalled carbon nanotubes and Ru(bpy)32+ doped mesoporous silica nanospheres. Biosensors and Bioelectronics, 2013, 50, 300-304.	5. 3	54
1550	A new regulatory principle for in vivo biochemistry: Pleiotropic low affinity regulation by the adenine nucleotides $\hat{a} \in \text{``Illustrated}$ for the glycolytic enzymes of <i>Saccharomyces cerevisiae</i> . FEBS Letters, 2013, 587, 2860-2867.	1.3	14
1551	Questions regarding the predictive value of one evolved complex adaptive system for a second: Exemplified by the SOD1 mouse. Progress in Biophysics and Molecular Biology, 2013, 113, 231-253.	1.4	33
1552	The utility of artificially evolved sequences in protein threading and fold recognition. Journal of Theoretical Biology, 2013, 328, 77-88.	0.8	8
1553	Colored Petri nets for multiscale systems biology - Current modeling and analysis capabilities in snoopy. , 2013, , .		1
1554	Integration of Metabolomics and Transcriptomics Revealed a Fatty Acid Network Exerting Growth Inhibitory Effects in Human Pancreatic Cancer. Clinical Cancer Research, 2013, 19, 4983-4993.	3.2	280
1555	Sequences and topology: disorder, modularity, and post/pre translation modification. Current Opinion in Structural Biology, 2013, 23, 417-419.	2.6	5
1556	Integrating Data-Driven and Mechanistic Models of the Inflammatory Response in Sepsis and Trauma. , 2013, , 143-157.		6
1557	Signal amplification strategy for sensitive immunoassay of prostate specific antigen (PSA) based on ferrocene incorporated polystyrene spheres. Analytica Chimica Acta, 2013, 793, 19-25.	2.6	36
1558	Omix $\hat{a}\in$ A Visualization Tool for Metabolic Networks with Highest Usability and Customizability in Focus. Chemie-Ingenieur-Technik, 2013, 85, 849-862.	0.4	33
1559	Digitization of Medicine. Academic Radiology, 2013, 20, 1479-1494.	1.3	17
1560	Systems biology: A biologist's viewpoint. Progress in Biophysics and Molecular Biology, 2013, 113, 358-368.	1.4	15
1561	Converting differential-equation models of biological systems to membrane computing. BioSystems, 2013, 114, 219-226.	0.9	8

#	Article	IF	CITATIONS
1562	Systems Biology, Synthetic Biology and Control Theory: A promising golden braid. Annual Reviews in Control, 2013, 37, 57-67.	4.4	18
1563	Medicinal and Pharmaceutical Chemistry. , 2013, , .		0
1564	Materials Informatics. , 2013, , 1-16.		7
1565	A systems biology approach using metabolomic data reveals genes and pathways interacting to modulate divergent growth in cattle. BMC Genomics, 2013, 14, 798.	1.2	76
1566	Novel recurrent neural network for modelling biological networks: Oscillatory p53 interaction dynamics. BioSystems, 2013, 114, 191-205.	0.9	26
1567	Evolutionary computation for predicting optimal reaction knockouts and enzyme modulation strategies., 2013,,.		1
1568	Toward an integrated software platform for systems pharmacology. Biopharmaceutics and Drug Disposition, 2013, 34, 508-526.	1.1	18
1569	Signalling pathway database usability: lessons learned. Molecular BioSystems, 2013, 9, 2401.	2.9	11
1570	Robustness analysis of a constraint-based metabolic model links cell growth and proteomics of Thermoanaerobacter tengcongensis under temperature perturbation. Molecular BioSystems, 2013, 9, 713.	2.9	7
1571	Gröbner-free normal forms for Boolean polynomials. Journal of Symbolic Computation, 2013, 48, 37-53.	0.5	3
1572	Network analysis for gene discovery in plantâ€specialized metabolism. Plant, Cell and Environment, 2013, 36, 1597-1606.	2.8	75
1573	The promiscuous binding of pharmaceutical drugs and their transporter-mediated uptake into cells: what we (need to) know and how we can do so. Drug Discovery Today, 2013, 18, 218-239.	3.2	130
1574	Semantic Web meets Integrative Biology: a survey. Briefings in Bioinformatics, 2013, 14, 109-125.	3.2	50
1575	Predicting outcomes in radiation oncology—multifactorial decision support systems. Nature Reviews Clinical Oncology, 2013, 10, 27-40.	12.5	329
1576	Analytical glycobiology at high sensitivity: current approaches and directions. Glycoconjugate Journal, 2013, 30, 89-117.	1.4	57
1577	High School Students' Understanding of the Human Body System. Research in Science Education, 2013, 43, 33-56.	1.4	66
1578	Network approaches to drug discovery. Expert Opinion on Drug Discovery, 2013, 8, 7-20.	2.5	40
1579	Opportunities for protein interaction networkâ€guided cellular engineering. IUBMB Life, 2013, 65, 17-27.	1.5	3

#	Article	IF	CITATIONS
1580	Toward a systemsâ€level understanding of the Hedgehog signaling pathway: defining the complex, robust, and fragile. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 83-100.	6.6	9
1581	A novel electrochemical immunosensor based on poly(m-aminophenol) modified expanded graphite electrode. Synthetic Metals, 2013, 183, 50-56.	2.1	6
1582	A comparative study of covariance selection models for the inference of gene regulatory networks. Journal of Biomedical Informatics, 2013, 46, 894-904.	2.5	12
1583	Preparation of Electrochemical Immunosensor Using Gold Nanoclusters as Signal Amplification Labels. Chinese Journal of Analytical Chemistry, 2013, 41, 658-663.	0.9	8
1584	Systems approaches in understanding evolution and evolvability. Progress in Biophysics and Molecular Biology, 2013, 113, 369-374.	1.4	3
1585	Multiscale Agent-based Model of Tumor Angiogenesis. Procedia Computer Science, 2013, 18, 1016-1025.	1.2	37
1586	Moving H5N1 studies into the era of systems biology. Virus Research, 2013, 178, 151-167.	1.1	14
1587	On some recent insights in Integral Biomathics. Progress in Biophysics and Molecular Biology, 2013, 113, 216-228.	1.4	7
1588	A process algebra framework for multi-scale modelling of biological systems. Theoretical Computer Science, 2013, 488, 15-45.	0.5	1
1590	Comparative study of RNA-seq- and Microarray-derived coexpression networks in <i>Arabidopsis thaliana</i> . Bioinformatics, 2013, 29, 717-724.	1.8	128
1591	Stress Tolerance in Plants: A Proteomics Approach. , 2013, , 359-386.		3
1592	Ultrahigh-Throughput Approach for Analyzing Single-Cell Genomic Damage with an Agarose-Based Microfluidic Comet Array. Analytical Chemistry, 2013, 85, 4066-4073.	3.2	30
1593	A highly sensitive and selective aptasensor based on graphene oxide fluorescence resonance energy transfer for the rapid determination of oncoprotein PDGF-BB. Analyst, The, 2013, 138, 1726.	1.7	55
1594	Resilience of the Internet Interconnection Ecosystem. , 2013, , 119-148.		12
1595	Spinning plates and juggling balls. EMBO Reports, 2013, 14, 305-309.	2.0	0
1596	Reverse Engineering of Biochemical Reaction Networks Using Co-evolution with Eng-Genes. Cognitive Computation, 2013, 5, 106-118.	3.6	4
1597	Theoretical aspects of Systems Biology. Progress in Biophysics and Molecular Biology, 2013, 112, 33-43.	1.4	76
1598	Modeling and simulation of biological systems from image data. BioEssays, 2013, 35, 482-490.	1.2	37

#	Article	IF	CITATIONS
1599	Merging Multiple Omics Datasets In Silico: Statistical Analyses and Data Interpretation. Methods in Molecular Biology, 2013, 985, 459-470.	0.4	19
1600	Network Characteristics of Collective Chemosensing. Physical Review Letters, 2013, 110, 158103.	2.9	15
1601	High-sensitivity Analytical Approaches for the Structural Characterization of Glycoproteins. Chemical Reviews, 2013, 113, 2668-2732.	23.0	276
1602	Yeast Systems Biology., 2013, , 343-365.		6
1603	In Silico Systems Biology Approaches for the Identification of Antimicrobial Targets. Methods in Molecular Biology, 2013, 993, 13-30.	0.4	10
1604	Subtoxic product levels limit the epoxidation capacity of recombinant E. coli by increasing microbial energy demands. Journal of Biotechnology, 2013, 163, 194-203.	1.9	25
1605	Genomeâ€scale modeling of human metabolism – a systems biology approach. Biotechnology Journal, 2013, 8, 985-996.	1,8	101
1606	Robustness of Network Controllability under Edge Removal. Studies in Computational Intelligence, 2013, , 185-193.	0.7	16
1608	Understanding traditional Chinese medicine anti-inflammatory herbal formulae by simulating their regulatory functions in the human arachidonic acid metabolic network. Molecular BioSystems, 2013, 9, 1931.	2.9	23
1609	Systems biology for molecular life sciences and its impact in biomedicine. Cellular and Molecular Life Sciences, 2013, 70, 1035-1053.	2.4	26
1611	Chromosomal instability and transcriptome dynamics in cancer. Cancer and Metastasis Reviews, 2013, 32, 391-402.	2.7	46
1612	Systems Biology and Education. History, Philosophy and Theory of the Life Sciences, 2013, , 549-575.	0.4	2
1613	Modeling metabolic processes between molecular and systems biology. Current Opinion in Structural Biology, 2013, 23, 218-223.	2.6	2
1614	Plant Cell Signaling in Metal Stress. , 2013, , 169-190.		1
1615	The effects of ingested mammalian blood factors on vector arthropod immunity and physiology. Microbes and Infection, 2013, 15, 243-254.	1.0	34
1616	Plant Organogenesis. Methods in Molecular Biology, 2013, , .	0.4	4
1617	Systems Metabolic Engineering. Methods in Molecular Biology, 2013, , .	0.4	3
1618	Toward a quantitative understanding of the Wnt/ <i>îr l²</i> îr â€catenin pathway through simulation and experiment. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 391-407.	6.6	34

#	Article	IF	CITATIONS
1619	Cancer networks and beyond: Interpreting mutations using the human interactome and protein structure. Seminars in Cancer Biology, 2013, 23, 219-226.	4.3	23
1620	Microfluidic beads-based immunosensor for sensitive detection of cancer biomarker proteins using multienzyme-nanoparticle amplification and quantum dotslabels. Biosensors and Bioelectronics, 2013, 42, 23-30.	5.3	58
1621	Single impulsive controller for globally exponential synchronization of dynamical networks. Nonlinear Analysis: Real World Applications, 2013, 14, 581-593.	0.9	142
1622	Defining structural and evolutionary modules in proteins: a community detection approach to explore sub-domain architecture. BMC Structural Biology, 2013, 13, 20.	2.3	16
1623	PEPA'd Oysters: Converting Dynamic Energy Budget Models to Bio-PEPA, Illustrated by a Pacific Oyster Case Study. Electronic Notes in Theoretical Computer Science, 2013, 296, 211-228.	0.9	5
1624	Network biomarkers reveal dysfunctional gene regulations during disease progression. FEBS Journal, 2013, 280, 5682-5695.	2.2	70
1625	The role of regulatory T cells in neurodegenerative diseases. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 153-180.	6.6	58
1626	From -omics to personalized medicine in nephrology: integration is the key. Nephrology Dialysis Transplantation, 2013, 28, 24-28.	0.4	29
1627	Construction and analysis of single nucleotide polymorphism–single nucleotide polymorphism interaction networks. IET Systems Biology, 2013, 7, 170-181.	0.8	0
1628	On the parallel simulation of scale-free networks. , 2013, , .		11
1629	Towards Polypharmacokinetics: Pharmacokinetics of Multicomponent Drugs and Herbal Medicines Using a Metabolomics Approach. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-12.	0.5	37
1630	Systems approaches for synthetic biology: a pathway toward mammalian design. Frontiers in Physiology, 2013, 4, 285.	1.3	8
1631	Reverse-Engineering Post-Transcriptional Regulation of Gap Genes in Drosophila melanogaster. PLoS Computational Biology, 2013, 9, e1003281.	1.5	38
1632	Cancer metabolism meets systems biology: Pyruvate kinase isoform PKM2 is a metabolic master regulator. Journal of Carcinogenesis, 2013, 12, 14.	2.5	52
1633	A method for integrating and ranking the evidence for biochemical pathways by mining reactions from text. Bioinformatics, 2013, 29, i44-i52.	1.8	34
1634	Simulating Cortical Development as a Self Constructing Process: A Novel Multi-Scale Approach Combining Molecular and Physical Aspects. PLoS Computational Biology, 2013, 9, e1003173.	1.5	30
1635	In Silico Modeling. Critical Care Medicine, 2013, 41, 2008-2014.	0.4	60
1636	Hybrid Equation/Agent-Based Model of Ischemia-Induced Hyperemia and Pressure Ulcer Formation Predicts Greater Propensity to Ulcerate in Subjects with Spinal Cord Injury. PLoS Computational Biology, 2013, 9, e1003070.	1.5	32

#	Article	IF	CITATIONS
1637	Replacements of Rare Herbs and Simplifications of Traditional Chinese Medicine Formulae Based on Attribute Similarities and Pathway Enrichment Analysis. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-9.	0.5	15
1638	Network Pharmacology: A New Approach for Chinese Herbal Medicine Research. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-9.	0.5	170
1639	Recent Progress in the Development of Metabolome Databases for Plant Systems Biology. Frontiers in Plant Science, 2013, 4, 73.	1.7	68
1640	The Genome Organization of Thermotoga maritima Reflects Its Lifestyle. PLoS Genetics, 2013, 9, e1003485.	1.5	38
1641	A Complex Systems View of Sepsis. Dimensions of Critical Care Nursing, 2013, 32, 12-17.	0.4	6
1642	Systems biology methods and developments of filamentous fungi in relation to the production of food ingredients., 2013,, 19-41.		0
1643	Systematic Reviews of Animal Models: Methodology versus Epistemology. International Journal of Medical Sciences, 2013, 10, 206-221.	1.1	175
1644	The ConsensusPathDB interaction database: 2013 update. Nucleic Acids Research, 2013, 41, D793-D800.	6. 5	728
1645	Design and fabrication of high-throughput application-specific microfluidic devices for studying single-cell responses to extracellular perturbations. , 2013, , .		1
1646	Research on Coal Mine Rescue Robot Model. Applied Mechanics and Materials, 0, 340, 801-804.	0.2	1
1647	Complex Systems and Computational Biology Approaches to Acute Inflammation. , 2013, , .		10
1648	ON MODELING OF LIVING ORGANISMS USING HIERARCHICAL COARSE-GRAINING ABSTRACTIONS OF KNOWLEDGE. Journal of Biological Systems, 2013, 21, 1350008.	0.5	7
1649	Integration of Proteomics, Bioinformatics, and Systems Biology in Traumatic Brain Injury Biomarker Discovery. Frontiers in Neurology, 2013, 4, 61.	1.1	40
1650	Cell Shape and Cardiosphere Differentiation: A Revelation by Proteomic Profiling. Biochemistry Research International, 2013, 2013, 1-9.	1.5	10
1651	Mapping What They Know: Concept Maps as an Effective Tool for Assessing Students' Systems Thinking. American Journal of Operations Research, 2013, 03, 245-258.	0.2	45
1652	Sensitivity analysis in Petri net representation of biological systems. , 2013, , .		1
1653	A deterministic-stochastic crossover algorithm for simulation of complex biochemical systems. , 2013, , .		0
1654	Consistent development of bioprocesses from microliter cultures to the industrial scale. Engineering in Life Sciences, 2013, 13, 224-238.	2.0	95

#	Article	IF	CITATIONS
1655	A system dynamics model integrating physiology and biochemical regulation predicts extent of crassulacean acid metabolism (<scp>CAM</scp>) phases. New Phytologist, 2013, 200, 1116-1131.	3.5	54
1656	Modeling cellular compartmentation in oneâ€carbon metabolism. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 343-365.	6.6	41
1657	Pharmacological potential of biogenic amine–polyamine interactions beyond neurotransmission. British Journal of Pharmacology, 2013, 170, 4-16.	2.7	49
1658	The Specification of Sex/Gender in the Human Species: A Thomistic Analysis. New Blackfriars, 2013, 94, 701-715.	0.1	4
1660	Principle for performing attractor transits with single control in Boolean networks. Physical Review E, 2013, 88, 062706.	0.8	21
1661	Hybrid time-data-driven control for biological cellular systems. , 2013, , .		0
1662	Controllability of probabilistic Boolean control networks with time-variant delays in states. , 2013, , .		0
1663	Reverse-engineering the genetic circuitry of a cancer cell with predicted intervention in chronic lymphocytic leukemia. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 459-464.	3.3	23
1664	Proteome-wide protein interaction measurements of bacterial proteins of unknown function. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 477-482.	3.3	37
1665	Setting the foundation for helminths systems biology. Systems Biomedicine (Austin, Tex), 2013, 1, 5-11.	0.7	2
1666	Complex Networks IV. Studies in Computational Intelligence, 2013, , .	0.7	2
1668	Minimal intervention strategies in logical signaling networks with ASP. Theory and Practice of Logic Programming, 2013, 13, 675-690.	1.1	15
1669	Vaccines, Reverse Vaccinology, and Bacterial Pathogenesis. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a012476-a012476.	2.9	119
1670	Predictive systems ecology. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131452.	1.2	114
1671	Network as biomarker. Systems Biomedicine (Austin, Tex), 2013, 1, 35-41.	0.7	15
1672	Parallel Real-Time PCR on a Chip for Genetic Tug-of-War (gTOW) Method. Analytical Sciences, 2013, 29, 367-371.	0.8	2
1674	In-one-pot-at-a-time Ligation for High-throughput Construction of a Protein Expression Vector Library. Chemistry Letters, 2013, 42, 424-426.	0.7	4
1675	Discovery of photochemical damage mechanisms using <i>in vitro </i> i>and <i>in silico </i> i>models. Proceedings of SPIE, 2013, , .	0.8	0

#	Article	IF	CITATIONS
1676	Editorial. Journal of Integrative Bioinformatics, 2013, 10, 29-32.	1.0	2
1677	A class of Switched Piecewise Quadratic Systems for coupling gene expression with growth rate in bacteria. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 271-276.	0.4	2
1678	Characterization of regulatory features of housekeeping and tissue-specific regulators within tissue regulatory networks. BMC Systems Biology, 2013, 7, 112.	3.0	6
1679	APG: an Active Protein-Gene Network Model to Quantify Regulatory Signals in Complex Biological Systems. Scientific Reports, 2013, 3, 1097.	1.6	21
1680	Mathematical Modelling of Polyamine Metabolism in Bloodstream-Form Trypanosoma brucei: An Application to Drug Target Identification. PLoS ONE, 2013, 8, e53734.	1.1	7
1681	Network Class Superposition Analyses. PLoS ONE, 2013, 8, e59046.	1.1	3
1682	The Flavonoid Pathway in Tomato Seedlings: Transcript Abundance and the Modeling of Metabolite Dynamics. PLoS ONE, 2013, 8, e68960.	1.1	12
1683	Decision-Tree Based Model Analysis for Efficient Identification of Parameter Relations Leading to Different Signaling States. PLoS ONE, 2013, 8, e82593.	1.1	13
1684	A Computational Hypothesis for Allostasis: Delineation of Substance Dependence, Conventional Therapies, and Alternative Treatments. Frontiers in Psychiatry, 2013, 4, 167.	1.3	7
1685	Network Analysis of Acupuncture Points Used in the Treatment of Low Back Pain. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-7.	0.5	34
1686	Biologic Complexity in Sickle Cell Disease: Implications for Developing Targeted Therapeutics. Scientific World Journal, The, 2013, 2013, 1-12.	0.8	14
1687	Updates in Hemoglobinopathies. Scientific World Journal, The, 2013, 2013, 1-1.	0.8	3
1688	Animal Models in Drug Development. , 2013, , .		11
1689	Scientific Swift in Bioremediation: An Overview. , 2013, , .		6
1690	Regulation Systems of Bacteria such as Escherichia coli in Response to Nutrient Limitation and Environmental Stresses. Metabolites, 2014, 4, 1-35.	1.3	212
1691	Computational Models of the NF-KB Signalling Pathway. Computation, 2014, 2, 131-158.	1.0	51
1692	Biomarkers in mood disorders research: developing new and improved therapeutics. Revista De Psiquiatria Clinica, 2014, 41, 131-134.	0.6	11
1693	Modeling the Effects of Light and Sucrose on In Vitro Propagated Plants: A Multiscale System Analysis Using Artificial Intelligence Technology. PLoS ONE, 2014, 9, e85989.	1.1	59

#	Article	IF	Citations
1694	A Network Pharmacology Study of Chinese Medicine QiShenYiQi to Reveal Its Underlying Multi-Compound, Multi-Target, Multi-Pathway Mode of Action. PLoS ONE, 2014, 9, e95004.	1.1	104
1695	Software Platform for Systems Biology. Drug Delivery System, 2014, 29, 386-396.	0.0	0
1696	Visualizing Cell State Transition Using Raman Spectroscopy. PLoS ONE, 2014, 9, e84478.	1.1	85
1697	Bayesian Parameter Inference and Model Selection by Population Annealing in Systems Biology. PLoS ONE, 2014, 9, e104057.	1.1	6
1698	Mechanisms of Regulation of Olfactory Transduction and Adaptation in the Olfactory Cilium. PLoS ONE, 2014, 9, e105531.	1.1	15
1699	LEMS: a language for expressing complex biological models in concise and hierarchical form and its use in underpinning NeuroML 2. Frontiers in Neuroinformatics, 2014, 8, 79.	1.3	109
1700	Networks as a Privileged Way to Develop Mesoscopic Level Approaches in Systems Biology. Systems, 2014, 2, 237-242.	1.2	10
1701	How Do Bioinformatics Approaches Apply to the Analysis and Understanding of Disease Pathology?., 2014,, 4140-4157.		2
1702	On the Coupling of Two Models of the Human Immune Response to an Antigen. BioMed Research International, 2014, 2014, 1-19.	0.9	14
1703	Integrated Design of Antibodies for Systems Biology Using Ab Designer. Journal of Proteomics and Bioinformatics, 2014, 07, 088-94.	0.4	2
1704	Biocomputational Resources Useful For Drug Discovery Against Compartmentalized Targets. Current Pharmaceutical Design, 2014, 20, 293-300.	0.9	4
1705	Biological and Medical Big Data Mining. International Journal of Knowledge Discovery in Bioinformatics, 2014, 4, 42-56.	0.8	17
1706	Live Multicellular Tumor Spheroid Models For High-Content Imaging and Screening In Cancer Drug Discovery. Current Chemical Genomics and Translational Medicine, 2014, 8, 27-35.	4.3	35
1707	Pathology: A Review. Biochemistry & Physiology, 2014, 03, .	0.2	0
1708	The Sectoral Adaptive Capacity Index of Hungarian Road Transport. Periodica Polytechnica, Social and Management Sciences, 2014, 22, 99-106.	0.2	6
1709	FOUNDATIONS FOR MODELING THE DYNAMICS OF GENE REGULATORY NETWORKS: A MULTILEVEL-PERSPECTIVE REVIEW. Journal of Bioinformatics and Computational Biology, 2014, 12, 1330003.	0.3	13
1710	Seasonal Allergic Rhinitis and Systems Biology-Oriented Biomarker Discovery. , 2014, , 1-18.		0
1711	Predicting Phenotype from Genotype Through Reconstruction and Integrative Modeling of Metabolic and Regulatory Networks., 2014,, 307-325.		2

#	Article	IF	CITATIONS
1712	Compositional colored Petri net approach to multiscale modeling for systems biology. International Journal of Modeling, Simulation, and Scientific Computing, 2014, 05, 1450017.	0.9	3
1714	Gene expression profiling by estimating parameters of gene regulatory network using meta-heuristics: A comparative study. , 2014, , .		1
1715	The competitive world of RAS biology. Nature Chemical Biology, 2014, 10, 173-174.	3.9	1
1716	Large-Scale Networks in Engineering and Life Sciences. Modeling and Simulation in Science, Engineering and Technology, 2014, , .	0.4	22
1717	Dynamical Analysis of bantam-Regulated Drosophila Circadian Rhythm Model. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450161.	0.7	3
1718	Model Selection in Systems Biology Depends on Experimental Design. PLoS Computational Biology, 2014, 10, e1003650.	1.5	54
1719	Modeling Biology Spanning Different Scales: An Open Challenge. BioMed Research International, 2014, 2014, 1-9.	0.9	50
1720	Heart failure: a complex clinical process interpreted by systems biology approach and network medicine. Anatolian Journal of Cardiology, 2014, 14, 178-185.	0.4	7
1721	Drought Stress Tolerance Mechanisms in Barley and Its Relevance to Cereals. Biotechnology in Agriculture and Forestry, 2014, , 161-179.	0.2	7
1722	Agent-Based Modeling of the Immune System: NetLogo, a Promising Framework. BioMed Research International, 2014, 2014, 1-6.	0.9	74
1723	Petri Net-Based Collaborative Simulation and Steering of Biochemical Reaction Networks. Fundamenta Informaticae, 2014, 129, 49-67.	0.3	7
1724	Why Integrate InfoVis and SciVis?: An Example from Systems Biology. IEEE Computer Graphics and Applications, 2014, 34, 69-73.	1.0	13
1725	The Use of Functional Genomics in Conjunction with Metabolomics for <i>Mycobacterium tuberculosis</i> Research. Disease Markers, 2014, 2014, 1-12.	0.6	18
1726	Network medicine, multimorbidity and the lung in the elderly. European Respiratory Journal, 2014, 44, 775-788.	3.1	63
1727	Toward a systems understanding of plantââ,¬â€œmicrobe interactions. Frontiers in Plant Science, 2014, 5, 423.	1.7	42
1728	Forecasting craniofacial growth in individuals with class III malocclusion by computational modelling. European Journal of Orthodontics, 2014, 36, 207-216.	1.1	15
1729	Human cardiac systems electrophysiology and arrhythmogenesis: iteration of experiment and computation. Europace, 2014, 16, iv77-iv85.	0.7	8
1730	An Agent-Based Model of an Oil Dispersant's Effect on a Marine Species. , 2014, , .		0

#	Article	IF	CITATIONS
1731	Gene regulatory networks estimation using uniting Bayesian subnetworks. , 2014, , .		0
1732	Scale-space measures for graph topology link protein network architecture to function. Bioinformatics, 2014, 30, i237-i245.	1.8	12
1734	Defining Molecular Initiating Events in the Adverse Outcome Pathway Framework for Risk Assessment. Chemical Research in Toxicology, 2014, 27, 2100-2112.	1.7	138
1735	An in silico target identification using Boolean network attractors: Avoiding pathological phenotypes. Comptes Rendus - Biologies, 2014, 337, 661-678.	0.1	16
1736	Cause and cure of sloppiness in ordinary differential equation models. Physical Review E, 2014, 90, 023303.	0.8	27
1737	Genomics and Proteomics for Clinical Discovery and Development. Translational Bioinformatics, 2014,	0.0	3
1738	Biotechnological Approaches to Barley Improvement. Biotechnology in Agriculture and Forestry, 2014, , .	0.2	7
1739	The role of the interactome in the maintenance of deleterious variability in human populations. Molecular Systems Biology, 2014, 10, 752.	3.2	28
1740	Modified Jiu Wei Qiang Huo decoction improves dysfunctional metabolomics in influenza A pneumoniaâ€infected mice. Biomedical Chromatography, 2014, 28, 468-474.	0.8	31
1742	Systems cell biology. Journal of Cell Biology, 2014, 206, 695-706.	2.3	39
1743	Optimal Control of Finiteâ€Valued Networks. Asian Journal of Control, 2014, 16, 1179-1190.	1.9	9
1744	Colored Petri Nets-Based Biological Network Reconstruction for Systems Biology. Communications in Computer and Information Science, 2014, , 150-159.	0.4	0
1745	Effects of small particle numbers on long-term behaviour in discrete biochemical systems. Bioinformatics, 2014, 30, i475-i481.	1.8	28
1746	Automatic validation of computational models using pseudo-3D spatio-temporal model checking. BMC Systems Biology, 2014, 8, 124.	3.0	9
1747	Regulatory networks, genes and glycerophospholipid biosynthesis pathway in schistosomiasis: A systems biology view for pharmacological intervention. Gene, 2014, 550, 214-222.	1.0	3
1748	A study on stability analysis of biochemical reaction system with negative feedback regulation. , 2014, , .		2
1749	Computational modelling of the inflammatory response in trauma, sepsis and wound healing: implications for modelling resilience. Interface Focus, 2014, 4, 20140004.	1.5	19
1750	Towards a comprehensive picture of the genetic landscape of complex traits. Briefings in Bioinformatics, 2014, 15, 30-42.	3.2	9

#	Article	IF	CITATIONS
1751	On structural identifiability of S-system. , 2014, , .		1
1752	Systems biology approach for subtyping asthma; where do we stand now?. Current Opinion in Pulmonary Medicine, 2014, 20, 17-22.	1.2	5
1753	Parameter Estimation of Gene Regulatory Network Using Honey Bee Mating Optimization. , 2014, , .		2
1754	Visualizing time-related data in biology, a review. Briefings in Bioinformatics, 2014, 15, 771-782.	3.2	35
1755	The Past, Present, and Future of Artificial Life. Frontiers in Robotics and Al, 2014, 1, .	2.0	48
1756	Nutrigenomics. , 2014, , 501-515.		0
1757	Relationship between promoter sequence and its strength in gene expression. European Physical Journal E, 2014, 37, 44.	0.7	25
1758	Graphene for Biosensor Applications. World Scientific Series on Carbon Nanoscience, 2014, , 83-145.	0.1	0
1759	Aberrant gene expression in mucosa adjacent to tumor reveals a molecular crosstalk in colon cancer. Molecular Cancer, 2014, 13, 46.	7.9	108
1760	Integrating <i>Omics</i> Technologies to Study Pulmonary Physiology and Pathology at the Systems Level. Cellular Physiology and Biochemistry, 2014, 33, 1239-1260.	1.1	12
1761	Green-emissive molecular marker with a TRIS-scaffold for fluorescence imaging of Zn2+ in biological systems. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 277, 75-81.	2.0	9
1762	A photoelectrochemical biosensor using ruthenium complex-reduced graphene oxide hybrid as the photocurrent signal reporter assembled on rhombic TiO2 nanocrystals driven by visible light. Analytica Chimica Acta, 2014, 828, 27-33.	2.6	19
1763	Advances in Computational Biology. Advances in Intelligent Systems and Computing, 2014, , .	0.5	1
1764	Generation of germ cells in vitro in the era of induced pluripotent stem cells. Molecular Reproduction and Development, 2014, 81, 2-19.	1.0	26
1765	A Review of the Institute of Medicine's Analysis of using Chimpanzees in Biomedical Research. Science and Engineering Ethics, 2014, 20, 481-504.	1.7	12
1766	Identification of alterations in the Jacobian of biochemical reaction networks from steady state covariance data at two conditions. Journal of Mathematical Biology, 2014, 68, 1757-1783.	0.8	10
1767	Inference of dynamic networks using time-course data. Briefings in Bioinformatics, 2014, 15, 212-228.	3.2	48
1768	Robustness as a nonâ€localizable relational phenomenon. Biological Reviews, 2014, 89, 552-567.	4.7	4

#	Article	IF	CITATIONS
1769	Molecular ecosystems. Biology and Philosophy, 2014, 29, 101-122.	0.7	1
1770	A computational model of the effect of gene misexpression on the development of cortical areas. Biological Cybernetics, 2014, 108, 203-221.	0.6	5
1771	A conceptual review on systems biology in health and diseases: from biological networks to modern therapeutics. Systems and Synthetic Biology, 2014, 8, 99-116.	1.0	50
1772	Experimental Design for Dynamics Identification of Cellular Processes. Bulletin of Mathematical Biology, 2014, 76, 597-626.	0.9	6
1773	Understanding system dynamics of an adaptive enzyme network from globally profiled kinetic parameters. BMC Systems Biology, 2014, 8, 4.	3.0	38
1774	Recent developments and applications of metabolomics in microbiological investigations. TrAC - Trends in Analytical Chemistry, 2014, 56, 37-48.	5.8	68
1775	Refining carbon flux paths using atomic trace data. Bioinformatics, 2014, 30, 975-980.	1.8	19
1776	DEVELOPING BIOMARKERS IN MOOD DISORDERS RESEARCH THROUGH THE USE OF RAPID-ACTING ANTIDEPRESSANTS. Depression and Anxiety, 2014, 31, 297-307.	2.0	43
1777	Whole-Brain Imaging with Single-Cell Resolution Using Chemical Cocktails and Computational Analysis. Cell, 2014, 157, 726-739.	13.5	1,097
1778	Direct calculation of elementary flux modes satisfying several biological constraints in genome-scale metabolic networks. Bioinformatics, 2014, 30, 2197-2203.	1.8	31
1779	On the Origin of Autonomy. History, Philosophy and Theory of the Life Sciences, 2014, , .	0.4	20
1780	Au nanoparticles/PAMAM dendrimer functionalized wired ethyleneamine–viologen as highly efficient interface for ultra-sensitive α-fetoprotein electrochemical immunosensor. Biosensors and Bioelectronics, 2014, 59, 389-396.	5.3	108
1781	Label-free electrochemical immunosensor based on multi-functional gold nanoparticles–polydopamine–thionine–graphene oxide nanocomposites film for determination of alpha-fetoprotein. Journal of Electroanalytical Chemistry, 2014, 712, 89-95.	1.9	46
1782	Micro analysis to map the glycome code. Proteomics, 2014, 14, 994-1000.	1.3	3
1783	Systems pharmacology in drug discovery and therapeutic insight for herbal medicines. Briefings in Bioinformatics, 2014, 15, 710-733.	3.2	200
1784	Systems biology, complexity, and the impact on antiepileptic drug discovery. Epilepsy and Behavior, 2014, 38, 131-142.	0.9	34
1785	A systems biology perspective on the role of WRKY transcription factors in drought responses in plants. Planta, 2014, 239, 255-266.	1.6	190
1786	A transcriptomicsâ€based kinetic model for ethylene biosynthesis in tomato (Solanum lycopersicum) fruit: development, validation and exploration of novel regulatory mechanisms. New Phytologist, 2014, 202, 952-963.	3.5	30

#	Article	IF	CITATIONS
1787	Enterococcus faecalis reconfigures its transcriptional regulatory network activation at different copper levels. Metallomics, 2014, 6, 572.	1.0	31
1788	Applications of Membrane Computing in Systems and Synthetic Biology. Emergence, Complexity and Computation, 2014, , .	0.2	56
1789	A highly sensitive and selective aptasensor based on fluorescence polarization for the rapid determination of oncoprotein vascular endothelial growth factor (VEGF). Analytical Methods, 2014, 6, 62-66.	1.3	35
1790	Integrative and interdisciplinary challenges in translational bioinformatics. ACM SIGBioinformatics Record, 2014, 4, 1-6.	0.3	1
1791	Distinct Rayleigh Scattering from Hot Spot Mutant p53 Proteins Reveals Cancer Cells. Small, 2014, 10, 2954-2962.	5.2	5
1792	BioFNet: biological functional network database for analysis and synthesis of biological systems. Briefings in Bioinformatics, 2014, 15, 699-709.	3.2	18
1793	Dispersion corrected DFT approaches for anharmonic vibrational frequency calculations: nucleobases and their dimers. Physical Chemistry Chemical Physics, 2014, 16, 10112-10128.	1.3	92
1794	Mathematical modeling for novel cancer drug discovery and development. Expert Opinion on Drug Discovery, 2014, 9, 1133-1150.	2.5	21
1795	Model-Checking Based Approaches to Parameter Estimation of Gene Regulatory Networks. , 2014, , .		0
1796	Gene expression profiling by estimating parameters of gene regulatory network using simulated annealing: A comparative study. , 2014, , .		4
1797	Systems biology strategies to study lipidomes in health and disease. Progress in Lipid Research, 2014, 55, 43-60.	5.3	71
1798	Model Reduction by Manifold Boundaries. Physical Review Letters, 2014, 113, 098701.	2.9	98
1800	Bacterial chemotaxis on SlipChip. Lab on A Chip, 2014, 14, 3074-3080.	3.1	35
1802	Systems Biology Brings New Dimensions for Structure-Based Drug Design. Journal of the American Chemical Society, 2014, 136, 11556-11565.	6.6	7 5
1803	Construction of robust dynamic genome-scale metabolic model structures of Saccharomyces cerevisiae through iterative re-parameterization. Metabolic Engineering, 2014, 25, 159-173.	3.6	29
1804	Herbicides as Weed Control Agents: State of the Art: II. Recent Achievements. Plant Physiology, 2014, 166, 1132-1148.	2.3	61
1805	Early Diagnosis of Complex Diseases by Molecular Biomarkers, Network Biomarkers, and Dynamical Network Biomarkers. Medicinal Research Reviews, 2014, 34, 455-478.	5.0	252
1806	Systems Biology of Pancreatic Cancer Stem Cells. , 2014, , 297-322.		0

#	Article	IF	CITATIONS
1807	Artificial photosynthesis over graphene–semiconductor composites. Are we getting better?. Chemical Society Reviews, 2014, 43, 8240-8254.	18.7	534
1808	Ruleâ€based modeling: a computational approach for studying biomolecular site dynamics in cell signaling systems. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2014, 6, 13-36.	6.6	97
1809	Pairwise binding competition experiments for sorting hub-protein/effector interaction hierarchy and simultaneous equilibria. Journal of Biomolecular NMR, 2014, 60, 29-36.	1.6	2
1810	Plant systems biology: insights, advances and challenges. Planta, 2014, 240, 33-54.	1.6	66
1811	Cellular self-organizing systems: A field-based behavior regulation approach. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2014, 28, 115-128.	0.7	5
1812	Mass Spectrometry-based Workflow for Accurate Quantification of Escherichia coli Enzymes: How Proteomics Can Play a Key Role in Metabolic Engineering. Molecular and Cellular Proteomics, 2014, 13, 954-968.	2.5	14
1813	Hollow platinum decorated Fe3O4 nanoparticles as peroxidase mimetic couple with glucose oxidase for pseudobienzyme electrochemical immunosensor. Sensors and Actuators B: Chemical, 2014, 193, 461-466.	4.0	39
1814	The Role of Brain Tumor Advocacy Groups. Current Neurology and Neuroscience Reports, 2014, 14, 442.	2.0	5
1815	Detection of driver metabolites in the human liver metabolic network using structural controllability analysis. BMC Systems Biology, 2014, 8, 51.	3.0	44
1816	Validation and variability: Dual challenges on the path from systems biology to systems medicine. Studies in History and Philosophy of Science Part C:Studies in History and Philosophy of Biological and Biomedical Sciences, 2014, 48, 28-37.	0.8	28
1817	Self-Titrating Anticoagulant Nanocomplexes That Restore Homeostatic Regulation of the Coagulation Cascade. ACS Nano, 2014, 8, 8776-8785.	7. 3	35
1819	Controllability of Boolean control networks with time delays both in states and inputs. Neurocomputing, 2014, 129, 467-475.	3.5	33
1820	An in-silico study of the regulation of CHO cells glycolysis. Journal of Theoretical Biology, 2014, 357, 112-122.	0.8	20
1821	Systems mapping of genes controlling chemotherapeutic drug efficiency for cancer stem cells. Drug Discovery Today, 2014, 19, 1125-1130.	3.2	4
1822	Approaches to in vitro tissue regeneration with application for human disease modeling and drug development. Drug Discovery Today, 2014, 19, 754-762.	3.2	39
1823	Proteomics in heart failure: top-down or bottom-up?. Pflugers Archiv European Journal of Physiology, 2014, 466, 1199-1209.	1.3	46
1824	Modern bioinformatics meets traditional Chinese medicine. Briefings in Bioinformatics, 2014, 15, 984-1003.	3.2	95
1825	Mathematical Models Light Up Plant Signaling. Plant Cell, 2014, 26, 5-20.	3.1	41

#	Article	IF	CITATIONS
1826	Influence of autapse on mode-locking structure of a Hodgkin–Huxley neuron under sinusoidal stimulus. Journal of Theoretical Biology, 2014, 358, 25-30.	0.8	26
1827	Nuclear magnetic resonance for foodomics beyond food analysis. TrAC - Trends in Analytical Chemistry, 2014, 59, 93-102.	5.8	107
1828	Computational comparison of mediated current generation capacity of Chlamydomonas reinhardtii in photosynthetic and respiratory growth modes. Journal of Bioscience and Bioengineering, 2014, 118, 565-574.	1.1	9
1829	Paper-based electrochemiluminescence immunodevice for carcinoembryonic antigen using nanoporous gold-chitosan hybrids and graphene quantum dots functionalized Au@Pt. Sensors and Actuators B: Chemical, 2014, 202, 314-322.	4.0	59
1830	Do Endothelial Cells Dream of Eclectic Shape?. Developmental Cell, 2014, 29, 146-158.	3.1	26
1831	Improving Microbial Robustness Using Systems Biology. , 0, , 605-620.		0
1832	Synergy-COPD: a systems approach for understanding and managing chronic diseases. Journal of Translational Medicine, 2014, 12, S2.	1.8	19
1833	Dealing with biological constraints in the synthesis of controllers for gene regulatory networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2435-2441.	0.4	3
1834	- DESIGN AND TAILORING OF POLYHYDROXYALKANOATE-BASED BIOMATERIALS CONTAINING 4-HYDROXYBUTYRATE MONOMER. , 2014, , 304-323.		0
1835	Optimality in the control of gene regulatory networks. , 2014, , .		1
1836	Mass Spectrometry Quantifies Protein Interactions—From Molecular Chaperones to Membrane Porins. Angewandte Chemie - International Edition, 2014, 53, 14002-14015.	7.2	53
1837	Panel: The future of research in modeling & mp; simulation. , 2014, , .		8
1838	Multiresolved control of discrete-time linear systems based on redundant realization via Wedderburn rank reduction. , 2015, , .		3
1839	Bridging Systems Medicine and Patient Needs. CPT: Pharmacometrics and Systems Pharmacology, 2015, 4, 135-145.	1.3	26
1840	Constructing a molecular interaction network for thyroid cancer via large-scale text mining of gene and pathway events. BMC Systems Biology, 2015, 9, S5.	3.0	9
1841	Re-Visioning Psychiatry. , 2015, , 622-660.		22
1842	Cancer therapy using non-thermal atmospheric pressure plasma with ultra-high electron density. Physics of Plasmas, 2015, 22, .	0.7	56
1843	Controllability of time-delayed Boolean multiplex control networks under asynchronous stochastic update. Scientific Reports, 2014, 4, 7522.	1.6	24

#	Article	IF	CITATIONS
1844	Crystals: animal, vegetable or mineral?. Interface Focus, 2015, 5, 20150027.	1.5	5
1845	DYVIPAC: an integrated analysis and visualisation framework to probe multi-dimensional biological networks. Scientific Reports, 2015, 5, 12569.	1.6	23
1846	Overview of the Cancer Genetics and Pathway Curation tasks of BioNLP Shared Task 2013. BMC Bioinformatics, 2015, 16, S2.	1.2	44
1847	PathwayMatrix: visualizing binary relationships between proteins in biological pathways. BMC Proceedings, 2015, 9, S3.	1.8	16
1848	ReactionFlow: an interactive visualization tool for causality analysis in biological pathways. BMC Proceedings, 2015, 9, S6.	1.8	28
1849	An Extended Constrained Total Least-Squares Method for the Identification of Genetic Networks from Noisy Measurements. Industrial & Engineering Chemistry Research, 2015, 54, 10583-10592.	1.8	1
1850	The curse of instability. Complexity, 2015, 20, 9-14.	0.9	5
1851	Automated parameter estimation for biological models using Bayesian statistical model checking. BMC Bioinformatics, 2015, 16, S8.	1.2	12
1852	Convergent Science Physical Oncology. Convergent Science Physical Oncology, 2015, 1, 010201.	2.6	0
1853	Unconventional screening approaches for antibiotic discovery. Annals of the New York Academy of Sciences, 2015, 1354, 54-66.	1.8	46
1854	7. Bioinformatik und Systembiologie. , 0, , .		0
1855	Role of Aryl Urea Containing Compounds in Medicinal Chemistry. , 2015, 5, .		41
1856	Analytical Characterization of Label-Free Immunosensor Subsystems Based on Multi-Walled Carbon Nanotube Array-Modified Gold Interface. Combinatorial Chemistry and High Throughput Screening, 2015, 18, 83-88.	0.6	9
1857	Principles and techniques in molecular biology. , 2015, , 86-98.		1
1858	Data-Driven and Statistical Models. , 2015, , 89-98.		0
1859	Metabolomics, Standards, and Metabolic Modeling for Synthetic Biology in Plants. Frontiers in Bioengineering and Biotechnology, 2015, 3, 167.	2.0	15
1860	RobOKoD: microbial strain design for (over)production of target compounds. Frontiers in Cell and Developmental Biology, 2015, 3, 17.	1.8	17
1861	Cancer Metabolism and Drug Resistance. Metabolites, 2015, 5, 571-600.	1.3	130

#	Article	IF	Citations
1862	Deciphering chemokine properties by a hybrid agent-based model of Aspergillus fumigatus infection in human alveoli. Frontiers in Microbiology, 2015, 6, 503.	1.5	42
1863	Quality Measures for Gene Expression Biclusters. PLoS ONE, 2015, 10, e0115497.	1.1	36
1864	Inferring Cetacean Population Densities from the Absolute Dynamic Topography of the Ocean in a Hierarchical Bayesian Framework. PLoS ONE, 2015, 10, e0120727.	1.1	22
1865	BrainSignals Revisited: Simplifying a Computational Model of Cerebral Physiology. PLoS ONE, 2015, 10, e0126695.	1.1	12
1866	A Computational Framework for Bioimaging Simulation. PLoS ONE, 2015, 10, e0130089.	1.1	13
1867	Network Topologies Decoding Cervical Cancer. PLoS ONE, 2015, 10, e0135183.	1.1	11
1868	Databases for multilevel biophysiology research available at Physiome.jp. Frontiers in Physiology, 2015, 6, 251.	1.3	7
1869	Pathway Analysis: State of the Art. Frontiers in Physiology, 2015, 6, 383.	1.3	227
1870	The female gametophyte: an emerging model for cell type-specific systems biology in plant development. Frontiers in Plant Science, 2015, 6, 907.	1.7	39
1871	The Dawn of Systems Cancer Immunotherapy. Archives of Surgical Oncology, 2015, 01, .	0.1	0
1872	Supervised Learning with the Artificial Neural Networks Algorithm for Modeling Immune Cell Differentiation., 2015,, 1-18.		2
1873	Inferring epigenetic dynamics from kin correlations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2281-9.	3.3	25
1874	Anti-tumor activities of active ingredients in Compound Kushen Injection. Acta Pharmacologica Sinica, 2015, 36, 676-679.	2.8	155
1875	Acclimation, adaptation, traits and trade-offs in plankton functional type models: reconciling terminology for biology and modelling. Journal of Plankton Research, 2015, 37, 683-691.	0.8	32
1876	Randomness and preserved patterns in cancer network. Scientific Reports, 2015, 4, 6368.	1.6	23
1877	The systems perspective at the crossroads between chemistry and biology. Journal of Theoretical Biology, 2015, 381, 11-22.	0.8	37
1878	Towards recommendations for metadata and data handling in plant phenotyping. Journal of Experimental Botany, 2015, 66, 5417-5427.	2.4	116
1879	A Brief Introduction to Synthetic Biology. , 2015, , 229-240.		1

#	ARTICLE	IF	CITATIONS
1880	Hydrodynamic nonadhesive cell retention in a microfluidic circuit for stressless suspension culture. Analytical Methods, 2015, 7, 7264-7269.	1.3	2
1881	The general entity of life: a cybernetic approach. Biological Cybernetics, 2015, 109, 401-419.	0.6	21
1882	Networks of neuroinjury semantic predications to identify biomarkers for mild traumatic brain injury. Journal of Biomedical Semantics, 2015, 6, 25.	0.9	11
1883	A Novel Mathematical Model Describing Adaptive Cellular Drug Metabolism and Toxicity in the Chemoimmune System. PLoS ONE, 2015, 10, e0115533.	1.1	7
1884	A review on computational systems biology of pathogenââ,¬â€œhost interactions. Frontiers in Microbiology, 2015, 6, 235.	1.5	93
1885	Semantic mining in clusters from signaling pathways networks. , 2015, , .		O
1886	Information cost for the state reconstruction of linear time invariant systems. , 2015, , .		1
1887	Evaluating Scalability of a Cloud Based Platform for Biological Networks Analysis. , 2015, , .		1
1888	Insights into the Role of Chemokines, Damage-Associated Molecular Patterns, and Lymphocyte-Derived Mediators from Computational Models of Trauma-Induced Inflammation. Antioxidants and Redox Signaling, 2015, 23, 1370-1387.	2.5	82
1889	Assessing the impact of mutations found in next generation sequencing data over human signaling pathways. Nucleic Acids Research, 2015, 43, W270-W275.	6.5	16
1890	Babelomics 5.0: functional interpretation for new generations of genomic data. Nucleic Acids Research, 2015, 43, W117-W121.	6.5	114
1891	Towards a Behavioral-Matching Based Compilation of Synthetic Biology Functions. Acta Biotheoretica, 2015, 63, 325-339.	0.7	0
1892	Rapid computation and interpretation of Boolean attractors in biological networks. Journal of Complex Networks, 2015, 3, 147-157.	1.1	3
1893	CancerNet: a database for decoding multilevel molecular interactions across diverse cancer types. Oncogenesis, 2015, 4, e177-e177.	2.1	31
1894	Reductive Explanation in the Biological Sciences. History, Philosophy and Theory of the Life Sciences, 2015, , .	0.4	33
1895	Contextualizing Systems Biology. , 2015, , .		3
1896	Understanding Systems Biology: A Place for Social Science Analysis., 2015,, 1-26.		0
1897	Basic Concepts of Systems Biology as Seen Through Systems Biologists' Eyes: Metaphorical Imagination and Epistemic Presuppositions. , 2015, , 27-118.		O

#	Article	IF	CITATIONS
1898	Systems-Oriented Approaches in Biology: System Biologist's Narratives of Present, Past, and Future. , 2015, , 119-146.		1
1899	Back into Future: The Systems Biology to Come. , 2015, , 283-301.		1
1900	Accurate Microbial Genome Annotation Using an Integrated and User-Friendly Environment for Community Expertise of Gene Functions: The MicroScope Platform. Springer Protocols, 2015, , 141-169.	0.1	2
1901	With the benefit of Foresight: Obesity, complexity and joined-up government. BioSocieties, 2015, 10, 213-228.	0.8	26
1902	Structural and practical identifiability analysis of Sâ€system. IET Systems Biology, 2015, 9, 285-293.	0.8	6
1903	SVM-BT-RFE: An improved gene selection framework using Bayesian T-test embedded in support vector machine (recursive feature elimination) algorithm. Karbala International Journal of Modern Science, 2015, 1, 86-96.	0.5	38
1904	Metabolomics for laboratory diagnostics. Journal of Pharmaceutical and Biomedical Analysis, 2015, 113, 108-120.	1.4	286
1905	Toward Feasible and Comprehensive Computational Protocol for Simulation of the Spectroscopic Properties of Large Molecular Systems: The Anharmonic Infrared Spectrum of Uracil in the Solid State by the Reduced Dimensionality/Hybrid VPT2 Approach. Journal of Physical Chemistry A, 2015, 119, 5313-5326.	1.1	28
1906	Vision from next generation sequencing: Multi-dimensional genome-wide analysis for producing gene regulatory networks underlying retinal development, aging and disease. Progress in Retinal and Eye Research, 2015, 46, 1-30.	7.3	50
1907	A paradigm shift in safe seafood production: From contaminant detection to fish monitoring – Application of biological warning systems to aquaculture. Trends in Food Science and Technology, 2015, 43, 104-113.	7.8	23
1908	Detection of Cancer Biomarkers by Biosensors. , 2015, , 109-167.		1
1909	Metabonomics. Methods in Molecular Biology, 2015, , .	0.4	16
1910	Asthma and obesity in children: current evidence and potential systems biology approaches. Allergy: European Journal of Allergy and Clinical Immunology, 2015, 70, 26-40.	2.7	40
1911	Integration of transcriptomics and metabolomics data specifies the metabolic response of Chlamydomonas to rapamycin treatment. Plant Journal, 2015, 81, 822-835.	2.8	80
1912	Methodologies for the modeling and simulation of biochemical networks, illustrated for signal transduction pathways: A primer. BioSystems, 2015, 129, 1-18.	0.9	13
1913	Systems biology approach to understanding post-traumatic stress disorder. Molecular BioSystems, 2015, 11, 980-993.	2.9	20
1914	The study on the material basis and the mechanism for anti-renal interstitial fibrosis efficacy of rhubarb through integration of metabonomics and network pharmacology. Molecular BioSystems, 2015, 11, 1067-1078.	2.9	56
1915	Using dataâ€independent, highâ€resolution mass spectrometry in protein biomarker research: Perspectives and clinical applications. Proteomics - Clinical Applications, 2015, 9, 307-321.	0.8	182

#	Article	IF	CITATIONS
1916	Systems Pharmacology and Pharmacogenomics for Drug Discovery and Development., 2015, , 173-193.		0
1917	Biomarkers for CNS Injury and Regeneration. , 2015, , 401-410.		0
1918	Current status and future perspectives of kinetic modeling for the cell metabolism with incorporation of the metabolic regulation mechanism. Bioresources and Bioprocessing, 2015, 2, .	2.0	17
1919	An electrochemical immunoassay based on trepang-like gold electrodes and nanogold functionalized flower-like hierarchical carbon materials with improved sensitivity. New Journal of Chemistry, 2015, 39, 3452-3460.	1.4	4
1920	Plant Functional Genomics. Methods in Molecular Biology, 2015, , .	0.4	9
1921	Emerging properties of nuclear RNP biogenesis and export. Current Opinion in Cell Biology, 2015, 34, 46-53.	2.6	11
1922	Network Pharmacology Bridges Traditional Application and Modern Development of Traditional Chinese Medicine. Chinese Herbal Medicines, 2015, 7, 3-17.	1.2	54
1923	Invertibility and nonsingularity of Boolean control networks. Automatica, 2015, 60, 155-164.	3.0	76
1924	Functional Genomics., 2015,, 223-245.		0
1925	Extracting biomarkers of commitment to cancer development: potential role of vibrational spectroscopy in systems biology. Expert Review of Molecular Diagnostics, 2015, 15, 693-713.	1.5	17
1926	Acceleration of discrete stochastic biochemical simulation using GPGPU. Frontiers in Physiology, 2015, 6, 42.	1.3	14
1927	Designing mental health interventions informed by child development and human biology theory: A social ecology intervention for child soldiers in <scp>N</scp> epal. American Journal of Human Biology, 2015, 27, 27-40.	0.8	57
1928	Unconventional Computing: Do We Dream Too Much?. Lecture Notes in Computer Science, 2015, , 63-70.	1.0	0
1929	Combined Metabolomics and Proteomics Analysis of Major Depression in an Animal Model: Perturbed Energy Metabolism in the Chronic Mild Stressed Rat Cerebellum. OMICS A Journal of Integrative Biology, 2015, 19, 383-392.	1.0	80
1930	Carbon Nanotubes Labeled with Aptamer and Horseradish Peroxidase as a Probe for Highly Sensitive Protein Biosensing by Postelectropolymerization of Insoluble Precipitates on Electrodes. Analytical Chemistry, 2015, 87, 7610-7617.	3.2	49
1931	Ungulates as model systems for the study of disease processes in natural populations. Journal of Mammalogy, 2015, 96, 4-15.	0.6	30
1932	Microalgal Systems Biology Through Genome-Scale Metabolic Reconstructions for Industrial Applications. , 2015, , 353-370.		4
1934	Systems biology of IL-6, IL-12 family cytokines. Cytokine and Growth Factor Reviews, 2015, 26, 595-602.	3.2	32

#	Article	IF	CITATIONS
1935	Generating Effective Models and Parameters for RNA Genetic Circuits. ACS Synthetic Biology, 2015, 4, 914-926.	1.9	45
1936	Identifying Modular Flows on Multilayer Networks Reveals Highly Overlapping Organization in Interconnected Systems. Physical Review X, 2015, 5, .	2.8	178
1937	Systems Biology: A New Frontier in Science. , 2015, , 301-314.		0
1938	Systems Biology in Toxicology and Environmental Health. , 2015, , 1-10.		2
1940	Hydrogen-Bonding Effects on Infrared Spectra from Anharmonic Computations: Uracil–Water Complexes and Uracil Dimers. Journal of Physical Chemistry A, 2015, 119, 4224-4236.	1.1	142
1941	Toward a systems-level view of mitotic checkpoints. Progress in Biophysics and Molecular Biology, 2015, 117, 217-224.	1.4	19
1942	Integrated Metabolomics and Genomics. Circulation: Cardiovascular Genetics, 2015, 8, 410-419.	5.1	65
1943	Systems approaches in integrative cardiac biology: Illustrations from cardiac heterocellular signalling studies. Progress in Biophysics and Molecular Biology, 2015, 117, 69-77.	1.4	7
1944	Trauma in silico: Individual-specific mathematical models and virtual clinical populations. Science Translational Medicine, 2015, 7, 285ra61.	5.8	66
1945	Simultaneous Quantification of Viral Antigen Expression Kinetics Using Data-Independent (DIA) Mass Spectrometry. Molecular and Cellular Proteomics, 2015, 14, 1361-1372.	2.5	24
1946	A system level analysis of gastric cancer across tumor stages with RNA-seq data. Molecular BioSystems, 2015, 11, 1925-1932.	2.9	11
1947	Importance of randomness in biological networks: A random matrix analysis. Pramana - Journal of Physics, 2015, 84, 285-293.	0.9	5
1948	Visual Analytics of Signalling Pathways Using Time Profiles. Advances in Experimental Medicine and Biology, 2015, 823, 3-22.	0.8	0
1949	Quantum Adaptivity in Biology: From Genetics to Cognition. , 2015, , .		58
1950	Fundamentals of Molecular Biology. , 2015, , 41-55.		0
1951	LAILAPS: The Plant Science Search Engine. Plant and Cell Physiology, 2015, 56, e8-e8.	1.5	7
1952	A Roadmap for a Rational Future. , 2015, , 69-78.		1
1953	White-Light-Exciting, Layer-by-Layer-Assembled ZnCdHgSe Quantum Dots/Polymerized Ionic Liquid Hybrid Film for Highly Sensitive Photoelectrochemical Immunosensing of Neuron Specific Enolase. Analytical Chemistry, 2015, 87, 4237-4244.	3.2	70

#	Article	IF	CITATIONS
1954	Unraveling liver complexity from molecular to organ level: Challenges and perspectives. Progress in Biophysics and Molecular Biology, 2015, 117, 78-86.	1.4	16
1955	Identifying Driver Nodes in the Human Signaling Network Using Structural Controllability Analysis. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2015, 12, 467-472.	1.9	41
1956	Coxsackievirus B3 replication and pathogenesis. Future Microbiology, 2015, 10, 629-653.	1.0	145
1957	Supervised learning methods in modeling of CD4+ T cell heterogeneity. BioData Mining, 2015, 8, 27.	2.2	15
1958	Long-Range Control of $V(D)J$ Recombination & Allelic Exclusion. Advances in Immunology, 2015, 128, 363-413.	1.1	25
1959	A fuzzy neural network for E. coli metabolism. AIP Conference Proceedings, 2015, , .	0.3	0
1960	Multi-Species Network Inference Improves Gene Regulatory Network Reconstruction for Early Embryonic Development inDrosophila. Journal of Computational Biology, 2015, 22, 253-265.	0.8	15
1961	On the origins of anticipation as an evolutionary framework: functional systems perspective. International Journal of General Systems, 2015, 44, 705-721.	1.2	3
1962	Systems Biology Application in Research on Sustainable Utilization of Chinese Materia Medica Resources. Chinese Herbal Medicines, 2015, 7, 196-203.	1.2	2
1963	Systems Biology for Smart Crops and Agricultural Innovation: Filling the Gaps between Genotype and Phenotype for Complex Traits Linked with Robust Agricultural Productivity and Sustainability. OMICS A Journal of Integrative Biology, 2015, 19, 581-601.	1.0	75
1964	Implementation of integral feedback control in biological systems. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2015, 7, 301-316.	6.6	27
1965	Quantitative Physiology Approaches to Understand and Optimize Reducing Power Availability in Environmental Bacteria. Springer Protocols, 2015, , 39-70.	0.1	14
1966	White biotechnology: State of the art strategies for the development of biocatalysts for biorefining. Biotechnology Advances, 2015, 33, 1653-1670.	6.0	83
1967	Comparitive study on healthcare prediction systems using big data., 2015,,.		5
1968	Regulatory dynamics of network architecture and function in tristable genetic circuit of <i>Leishmania </i> : a mathematical <i>biology </i> approach. Journal of Biomolecular Structure and Dynamics, 2015, 33, 2554-2562.	2.0	0
1969	Computational Systems Toxicology. Methods in Pharmacology and Toxicology, 2015, , .	0.1	5
1970	The application of systems biology to biomanufacturing. Pharmaceutical Bioprocessing, 2015, 3, 341-355.	0.8	1
1971	Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. Chemical Reviews, 2015, 115, 10307-10377.	23.0	1,017

#	Article	IF	CITATIONS
1972	Accelerating the Pace of Protein Functional Annotation With Intel Xeon Phi Coprocessors. IEEE Transactions on Nanobioscience, 2015, 14, 429-439.	2.2	6
1974	Big Data Analytics. Lecture Notes in Computer Science, 2015, , .	1.0	4
1975	Multi-omics Multi-scale Big Data Analytics for Cancer Genomics. Lecture Notes in Computer Science, 2015, , 228-243.	1.0	3
1976	A systemic approach for modeling biological evolution using Parallel DEVS. BioSystems, 2015, 134, 56-70.	0.9	4
1978	Amplification strategies using electrochemiluminescence biosensors for the detection of DNA, bioactive molecules and cancer biomarkers. TrAC - Trends in Analytical Chemistry, 2015, 65, 137-150.	5.8	62
1979	Personalized Medicine., 2015, , 176-204.		1
1980	Systems and Synthetic Biology. , 2015, , .		7
1981	Ultrasensitive photoelectrochemical immunoassay through tag induced exciton trapping. Talanta, 2015, 134, 496-500.	2.9	31
1982	New Insights into the Connection Between Histone Deacetylases, Cell Metabolism, and Cancer. Antioxidants and Redox Signaling, 2015, 23, 30-50.	2.5	11
1983	Vascular Morphogenesis. Methods in Molecular Biology, 2015, , .	0.4	11
1984	Toward a Morphodynamic Model of the Cell: Signal processing for cell modeling. IEEE Signal Processing Magazine, 2015, 32, 20-29.	4.6	13
1985	Engineering propionibacteria as versatile cell factories for the production of industrially important chemicals: advances, challenges, and prospects. Applied Microbiology and Biotechnology, 2015, 99, 585-600.	1.7	20
1987	Towards Translational Systems Biology of Inflammation. , 2015, , 57-61.		0
1988	Unraveling the contribution of pancreatic beta-cell suicide in autoimmune type 1 diabetes. Journal of Theoretical Biology, $2015, 375, 77-87$.	0.8	22
1989	Cancer systems biology and modeling: Microscopic scale and multiscale approaches. Seminars in Cancer Biology, 2015, 30, 60-69.	4.3	31
1990	On sampled-data control for stabilization of genetic regulatory networks with leakage delays. Neurocomputing, 2015, 149, 1225-1231.	3.5	43
1991	Controlled glucose consumption in yeast using a transistor-like device. Scientific Reports, 2014, 4, 5429.	1.6	11
1992	Isotope labeling pattern study of central carbon metabolites using GC/MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 974, 101-108.	1.2	18

#	Article	IF	CITATIONS
1993	Unraveling the Physiological Complexities of Antibiotic Lethality. Annual Review of Pharmacology and Toxicology, 2015, 55, 313-332.	4.2	222
1994	Three-dimensional electrochemical immunosensor for sensitive detection of carcinoembryonic antigen based on monolithic and macroporous graphene foam. Biosensors and Bioelectronics, 2015, 65, 281-286.	5. 3	146
1995	Photoinduced electron transfer (PET) based label-free aptasensor for platelet-derived growth factor-BB and its logic gate application. Biosensors and Bioelectronics, 2015, 63, 552-557.	5.3	43
1996	Graphical Modeling Tools for Systems Biology. ACM Computing Surveys, 2015, 47, 1-21.	16.1	13
1997	An electrochemical immunosensor for ultrasensitive detection of carbohydrate antigen 199 based on Au@Cu x OS yolk–shell nanostructures with porous shells as labels. Biosensors and Bioelectronics, 2015, 63, 39-46.	5. 3	56
1998	Synthetic Biology. Risk Engineering, 2015, , .	0.7	2
1999	Synthetic biology at the interface of functional genomics. Briefings in Functional Genomics, 2015, 14, 180-188.	1.3	3
2000	Combining flux balance analysis and model checking for metabolic network validation and analysis. Natural Computing, 2015, 14, 341-354.	1.8	1
2001	Proteomics: Contribution of Proteomics Techniques to Understanding the Interrelationship between Food and Health., 2016,, 554-560.		1
2002	A Novel Malaria Pf/Pv Ab Rapid Diagnostic Test Using a Differential Diagnostic Marker Identified by Network Biology. International Journal of Biological Sciences, 2016, 12, 824-835.	2.6	6
2003	Data-Driven Modeling for Precision Medicine in Pediatric Acute Liver Failure. Molecular Medicine, 2016, 22, 821-829.	1.9	45
2004	Artificial Intelligence to Win the Nobel Prize and Beyond: Creating the Engine for Scientific Discovery. Al Magazine, 2016, 37, 39-49.	1.4	79
2005	Deterministic Differential Equations. , 2016, , 67-98.		0
2006	Multilevel processes and cultural adaptation: examples from past and present small-scale societies. Ecology and Society, 2016, 21, .	1.0	13
2007	Practical aspects of NGS-based pathways analysis for personalized cancer science and medicine. Oncotarget, 2016, 7, 52493-52516.	0.8	15
2008	"Tailored-to-You― Public Engagement and the Political Legitimation of Precision Medicine. Perspectives in Biology and Medicine, 2016, 59, 172-188.	0.3	20
2009	Survey of Engineering Models for Systems Biology. Computational Biology Journal, 2016, 2016, 1-12.	0.6	3
2010	Multi-OMICs and Genome Editing Perspectives on Liver Cancer Signaling Networks. BioMed Research International, 2016, 2016, 1-14.	0.9	7

#	Article	IF	CITATIONS
2011	An Update on Inflamm-Aging: Mechanisms, Prevention, and Treatment. Journal of Immunology Research, 2016, 2016, 1-12.	0.9	353
2012	Dendritic Cells and <i>Leishmania </i> Infection: Adding Layers of Complexity to a Complex Disease. Journal of Immunology Research, 2016, 2016, 1-9.	0.9	61
2013	Systems Perturbation Analysis of a Large-Scale Signal Transduction Model Reveals Potentially Influential Candidates for Cancer Therapeutics. Frontiers in Bioengineering and Biotechnology, 2016, 4, 10.	2.0	29
2014	Computing and Applying Atomic Regulons to Understand Gene Expression and Regulation. Frontiers in Microbiology, 2016, 7, 1819.	1.5	7
2015	Mathematical Modeling and Dynamic Simulation of Metabolic Reaction Systems Using Metabolome Time Series Data. Frontiers in Molecular Biosciences, 2016, 3, 15.	1.6	19
2016	Big Data Analytics for Prostate Radiotherapy. Frontiers in Oncology, 2016, 6, 149.	1.3	34
2017	Clinical Metabolomics: The New Metabolic Window for Inborn Errors of Metabolism Investigations in the Post-Genomic Era. International Journal of Molecular Sciences, 2016, 17, 1167.	1.8	92
2018	Omics-Based Strategies in Precision Medicine: Toward a Paradigm Shift in Inborn Errors of Metabolism Investigations. International Journal of Molecular Sciences, 2016, 17, 1555.	1.8	135
2019	Strategies for structuring interdisciplinary education in Systems Biology: an European perspective. Npj Systems Biology and Applications, 2016, 2, 16011.	1.4	21
2020	Topological Small-World Organization of the Fibroblastic Reticular Cell Network Determines Lymph Node Functionality. PLoS Biology, 2016, 14, e1002515.	2.6	96
2021	HepatoDyn: A Dynamic Model of Hepatocyte Metabolism That Integrates 13C Isotopomer Data. PLoS Computational Biology, 2016, 12, e1004899.	1.5	14
2022	Mapping of Enzyme Kinetics on a Microfluidic Device. PLoS ONE, 2016, 11, e0153437.	1.1	19
2023	Transcriptional Network Architecture of Breast Cancer Molecular Subtypes. Frontiers in Physiology, 2016, 7, 568.	1.3	48
2024	Computational systems biology in cancer brain metastasis. Frontiers in Bioscience - Scholar, 2016, 8, 169-186.	0.8	6
2025	Interactions between a Plasma-Activated Medium and Cancer Cells. Plasma Medicine, 2016, 6, 101-106.	0.2	17
2027	Tissue Dynamics. Annals of Plastic Surgery, 2016, 77, S87-S91.	0.5	3
2028	The butterfly proboscis as a fiber-based, self-cleaning, micro-fluidic system. Proceedings of SPIE, 2016, ,	0.8	1
2029	A Weighted Pair Graph Representation for Reconstructibility of Boolean Control Networks. SIAM Journal on Control and Optimization, 2016, 54, 3040-3060.	1.1	50

#	Article	IF	CITATIONS
2030	Reverse engineering the inflammatory "clock†from computational modeling to rational resetting. Drug Discovery Today: Disease Models, 2016, 22, 57-63.	1.2	1
2031	An adaptive tau-leaping method for stochastic simulations of reaction-diffusion systems. AIP Advances, 2016, 6, .	0.6	17
2032	Systems Pharmacology and Pharmacodynamics. AAPS Advances in the Pharmaceutical Sciences Series, 2016, , .	0.2	9
2033	Metabolomics and livestock genomics: Insights into a phenotyping frontier and its applications in animal breeding. Animal Frontiers, 2016, 6, 73-79.	0.8	57
2034	Network or regression-based methods for disease discrimination: a comparison study. BMC Medical Research Methodology, 2016, 16, 100.	1.4	19
2035	Systems view of adipogenesis via novel omics-driven and tissue-specific activity scoring of network functional modules. Scientific Reports, 2016, 6, 28851.	1.6	17
2036	Airway remodeling: Systems biology approach, from bench to bedside. Technology and Health Care, 2016, 24, 811-819.	0.5	1
2037	Metabolomics in Cell Biology. , 2016, , 199-210.		0
2038	Bridging the gap between clinicians and systems biologists: from network biology to translational biomedical research. Journal of Translational Medicine, 2016, 14, 324.	1.8	21
2039	Identification of Potential Drug Targets in Cancer Signaling Pathways using Stochastic Logical Models. Scientific Reports, 2016, 6, 23078.	1.6	24
2040	ACT-PRESTO: Rapid and consistent tissue clearing and labeling method for 3-dimensional (3D) imaging. Scientific Reports, 2016, 6, 18631.	1.6	186
2041	Systems Pharmacology and Pharmacodynamics: An Introduction. AAPS Advances in the Pharmaceutical Sciences Series, 2016, , 3-14.	0.2	4
2042	Translational Modeling of Antibacterial Agents. AAPS Advances in the Pharmaceutical Sciences Series, 2016, , 371-402.	0.2	0
2043	A study of parallel and evolutionary framework for modelling biochemical signalling pathways. , 2016, , .		0
2044	Systems biology: impressions from a newcomer graduate student in 2016. American Journal of Physiology - Advances in Physiology Education, 2016, 40, 443-445.	0.8	4
2045	Control analysis of the impact of allosteric regulation mechanism in a Escherichia coli kinetic model: Application to serine production. Biochemical Engineering Journal, 2016, 110, 59-70.	1.8	2
2046	Multiscale entropy: A tool for understanding the complexity of postural control. Journal of Sport and Health Science, 2016, 5, 44-51.	3.3	121
2047	Sleep as spatiotemporal integration of biological processes that evolved to periodically reinforce neurodynamic and metabolic homeostasis: The 2m3d paradigm of sleep. Journal of the Neurological Sciences, 2016, 367, 63-80.	0.3	7

#	ARTICLE	IF	CITATIONS
2048	Systems Biological Applications for Fungal Gene Expression. Fungal Biology, 2016, , 385-393.	0.3	1
2049	Neural model of gene regulatory network: a survey on supportive meta-heuristics. Theory in Biosciences, 2016, 135, 1-19.	0.6	25
2050	Integrating the Effects of Ocean Acidification across Functional Scales on Tropical Coral Reefs. BioScience, 2016, 66, 350-362.	2.2	51
2051	Systems Biology Analysis of Heterocellular Signaling. Trends in Biotechnology, 2016, 34, 627-637.	4.9	26
2052	Research Challenges in Parallel and Distributed Simulation. ACM Transactions on Modeling and Computer Simulation, 2016, 26, 1-29.	0.6	72
2053	Omics approaches to probe markers of disease resistance in animal sciences. Molecular BioSystems, 2016, 12, 2036-2046.	2.9	14
2054	Use of systems biology to decipher host–pathogen interaction networks and predict biomarkers. Clinical Microbiology and Infection, 2016, 22, 600-606.	2.8	39
2055	Comparison of module detection algorithms in protein networks and investigation of the biological meaning of predicted modules. BMC Bioinformatics, 2016, 17, 129.	1.2	28
2056	The promises of quantitative systems pharmacology modelling for drugÂdevelopment. Computational and Structural Biotechnology Journal, 2016, 14, 363-370.	1.9	77
2057	Logical and Semantic Modeling of Complex Biomolecular Networks. Procedia Computer Science, 2016, 96, 475-484.	1.2	6
2058	Growth factors: the journey continues. Growth Factors, 2016, 34, 1-4.	0.5	3
2060	New dimensions in animal communication: the case for complexity. Current Opinion in Behavioral Sciences, 2016, 12, 80-89.	2.0	49
2061	A systems approach to animal communication. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152889.	1.2	130
2064	Transgenic Mouse Models Transferred into the Test Tube: New Perspectives for Developmental Toxicity Testing In Vitro? Trends in Pharmacological Sciences, 2016, 37, 822-830.	4.0	3
2065	Biocompatible Integration of Electronics Into Food Sensors. Comprehensive Analytical Chemistry, 2016, 74, 247-271.	0.7	12
2066	Philosophy of Cancer. History, Philosophy and Theory of the Life Sciences, 2016, , .	0.4	43
2067	The Physics behind Systems Biology. EPJ Nonlinear Biomedical Physics, 2016, 4, .	0.8	9
2068	Emerging Trends of Nanotechnology in Omics-Based Drug Discovery and Development. , 2016, , 124-141.		0

#	Article	IF	CITATIONS
2069	Complexity, network theory, and the epistemological issue. Kybernetes, 2016, 45, 1158-1170.	1.2	15
2070	Systems in Evolutionary Systems Biology. , 2016, , 297-318.		7
2071	Application of Systems Biology to Neuroproteomics: The Path to Enhanced Theranostics in Traumatic Brain Injury. Methods in Molecular Biology, 2016, 1462, 139-155.	0.4	6
2072	Re-conceptualizing (environmental) sociology. Environmental Sociology, 2016, 2, 322-332.	1.7	8
2073	Automated multi-objective calibration of biological agent-based simulations. Journal of the Royal Society Interface, 2016, 13, 20160543.	1.5	16
2075	Convergent Evolution and the Origin of Complex Phenotypes in the Age of Systems Biology. International Journal of Plant Sciences, 2016, 177, 305-318.	0.6	33
2076	Genetically Engineered Antibody Functionalized Platinum Nanoparticles Modified CVDâ€Graphene Nanohybrid Transistor for the Detection of Breast Cancer Biomarker, HER3. Advanced Materials Interfaces, 2016, 3, 1600124.	1.9	34
2077	Introduction to Genetic, Genomic and System Analyses of Pure Cultures. Springer Protocols, 2016, , 1-7.	0.1	0
2078	Cellular identity at the single-cell level. Molecular BioSystems, 2016, 12, 2965-2979.	2.9	17
2079	Structural simplification of chemical reaction networks in partial steady states. BioSystems, 2016, 149, 34-49.	0.9	1
2081	A Philosophical Framework for Integrating Systems Pharmacology Models Into Pharmacometrics. CPT: Pharmacometrics and Systems Pharmacology, 2016, 5, 649-655.	1.3	3
2082	A History of the Molecular Initiating Event. Chemical Research in Toxicology, 2016, 29, 2060-2070.	1.7	39
2083	Synthetic and systems biology for microbial production of commodity chemicals. Npj Systems Biology and Applications, 2016, 2, 16009.	1.4	187
2084	The Adaptive Nature of Culture: A Cross-Cultural Analysis of the Returns of Local Environmental Knowledge in Three Indigenous Societies. Current Anthropology, 2016, 57, 761-784.	0.8	40
2085	Network-Guided Key Gene Discovery for a Given Cellular Process. Advances in Biochemical Engineering/Biotechnology, 2016, , 1.	0.6	2
2086	Ontologies in bioinformatics and systems biology. Russian Journal of Genetics: Applied Research, 2016, 6, 749-758.	0.4	1
2087	Graphene in Photocatalysis: A Review. Small, 2016, 12, 6640-6696.	5.2	836
2088	Tailored parameter optimization methods for ordinary differential equation models with steady-state constraints. BMC Systems Biology, 2016, 10, 80.	3.0	30

#	ARTICLE	IF	Citations
2089	Systems pharmacology of hepatic metabolism in zebrafish larvae. Drug Discovery Today: Disease Models, 2016, 22, 27-34.	1.2	31
2090	Microfluidics in systems biology — hype or truly useful?. Current Opinion in Biotechnology, 2016, 39, 215-220.	3.3	18
2091	PREDICTION OF SYSTEM STATES, ROBUSTNESS AND STABILITY OF THE HUMAN WNT SIGNAL TRANSDUCTION PATHWAY USING BOOLEAN LOGIC. , 2016 , , .		0
2092	Differential Neuroproteomic and Systems Biology Analysis of Spinal Cord Injury. Molecular and Cellular Proteomics, 2016, 15, 2379-2395.	2.5	38
2093	A novel systems pharmacology platform to dissect action mechanisms of traditional Chinese medicines for bovine viral diarrhea disease. European Journal of Pharmaceutical Sciences, 2016, 94, 33-45.	1.9	51
2094	Fluoxetine Treatment Rescues Energy Metabolism Pathway Alterations in a Posttraumatic Stress Disorder Mouse Model. Molecular Neuropsychiatry, 2016, 2, 46-59.	3.0	18
2095	SMT and TOFT: Why and How They are Opposite and Incompatible Paradigms. Acta Biotheoretica, 2016, 64, 221-239.	0.7	22
2096	The aetiopathogenesis of fatigue: unpredictable, complex and persistent. British Medical Bulletin, 2016, 117, 139-148.	2.7	15
2097	Next generation sequencing technology and genomewide data analysis: Perspectives for retinal research. Progress in Retinal and Eye Research, 2016, 55, 1-31.	7.3	58
2098	Complex systems dynamics in aging: new evidence, continuing questions. Biogerontology, 2016, 17, 205-220.	2.0	103
2099	Omics/systems biology and cancer cachexia. Seminars in Cell and Developmental Biology, 2016, 54, 92-103.	2.3	26
2101	Mammalian Reverse Genetics without Crossing Reveals Nr3a as a Short-Sleeper Gene. Cell Reports, 2016, 14, 662-677.	2.9	106
2102	Modeling and Model Simplification to Facilitate Biological Insights and Predictions. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2016, , 301-325.	0.7	6
2103	Finite automata approach to observability of switched Boolean control networks. Nonlinear Analysis: Hybrid Systems, 2016, 19, 186-197.	2.1	38
2104	Finding Robust Adaptation Gene Regulatory Networks Using Multi-Objective Genetic Algorithm. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2016, 13, 571-577.	1.9	20
2105	Zooming-in on cancer metabolic rewiring with tissue specific constraint-based models. Computational Biology and Chemistry, 2016, 62, 60-69.	1.1	36
2106	Facing the challenges of multiscale modelling of bacterial and fungal pathogen–host interactions. Briefings in Functional Genomics, 2017, 16, elv064.	1.3	8
2107	Kinetic modeling and the rise of systems pharmacology. Journal of Lipid Research, 2016, 57, 1-3.	2.0	1

#	Article	IF	CITATIONS
2108	Complex patterns of differential expression in candidate master regulatory genes for social behavior in honey bees. Behavioral Ecology and Sociobiology, 2016, 70, 1033-1043.	0.6	23
2109	Whole-body and Whole-Organ Clearing and Imaging Techniques with Single-Cell Resolution: Toward Organism-Level Systems Biology in Mammals. Cell Chemical Biology, 2016, 23, 137-157.	2.5	263
2110	Relative stability of network states in Boolean network models of gene regulation in development. BioSystems, 2016, 142-143, 15-24.	0.9	45
2111	Exact quantification of cellular robustness in genome-scale metabolic networks. Bioinformatics, 2016, 32, 730-737.	1.8	15
2112	Dual-responsive competitive immunosensor for sensitive detection of tumor marker on g-CN/rGO conjugation. Sensors and Actuators B: Chemical, 2016, 230, 810-817.	4.0	38
2113	Neuropharmacology beyond reductionism – A likely prospect. BioSystems, 2016, 141, 1-9.	0.9	28
2114	The endeavour to advance graphene–semiconductor composite-based photocatalysis. CrystEngComm, 2016, 18, 24-37.	1.3	89
2115	Integration of systems biology in cell line and process development for biopharmaceutical manufacturing. Biochemical Engineering Journal, 2016, 107, 11-17.	1.8	17
2116	Chemogenomic analysis of neuronal differentiation with pathway changes in PC12 cells. Molecular BioSystems, 2016, 12, 283-294.	2.9	4
2117	Some assembly required: evolutionary and systems perspectives on the mammalian reproductive system. Cell and Tissue Research, 2016, 363, 267-278.	1.5	6
2118	A Multi-State Optimization Framework for Parameter Estimation in Biological Systems. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2016, 13, 472-482.	1.9	1
2119	Computing the structural influence matrix for biological systems. Journal of Mathematical Biology, 2016, 72, 1927-1958.	0.8	38
2121	A pathway-based network analysis of hypertension-related genes. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 928-939.	1.2	2
2122	Ultrasensitive photoelectrochemical immunoassay for CA19-9 detection based on CdSe@ZnS quantum dots sensitized TiO 2 NWs/Au hybrid structure amplified by quenching effect of Ab 2 @V 2+ conjugates. Biosensors and Bioelectronics, 2016, 77, 339-346.	5.3	84
2123	Alzheimer's as a Systems-Level Disease Involving the Interplay of Multiple Cellular Networks. Methods in Molecular Biology, 2016, 1303, 3-48.	0.4	33
2124	Application of Systems Theory in Longitudinal Studies on the Origin and Progression of Alzheimer's Disease. Methods in Molecular Biology, 2016, 1303, 49-67.	0.4	30
2125	Representing network reconstruction solutions with colored Petri nets. Neurocomputing, 2016, 174, 483-493.	3.5	2
2126	Systems Biology Approaches to the Study of Biological Networks Underlying Alzheimer's Disease: Role of miRNAs. Methods in Molecular Biology, 2016, 1303, 349-377.	0.4	19

#	Article	IF	CITATIONS
2127	Identification of candidate network hubs involved in metabolic adjustments of rice under drought stress by integrating transcriptome data and genome-scale metabolic network. Plant Science, 2016, 242, 224-239.	1.7	39
2128	Systems biological approaches to the cardiac signaling network. Briefings in Bioinformatics, 2016, 17, 419-428.	3.2	8
2129	The Nature of Self-Regulatory Fatigue and "Ego Depletion― Personality and Social Psychology Review, 2016, 20, 291-310.	3.4	107
2131	Multiscale modelling in immunology: a review. Briefings in Bioinformatics, 2016, 17, 408-418.	3.2	46
2132	The future of computational biomedicine: Complex systems thinking. Mathematics and Computers in Simulation, 2017, 132, 1-27.	2.4	13
2133	Development of GRAS strains for nutraceutical production using systems and synthetic biology approaches: advances and prospects. Critical Reviews in Biotechnology, 2017, 37, 139-150.	5.1	35
2134	An Application of Invertibility of Boolean Control Networks to the Control of the Mammalian Cell Cycle. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 225-229.	1.9	10
2135	Identification of Boolean Networks Using Premined Network Topology Information. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 464-469.	7.2	16
2136	Developing a complex systems perspective for medical education to facilitate the integration of basic science and clinical medicine. Journal of Evaluation in Clinical Practice, 2017, 23, 460-466.	0.9	6
2137	Tipping points in the dynamics of speciation. Nature Ecology and Evolution, 2017, 1, 1.	3.4	281
2138	Robust parameter estimation for dynamical systems from outlier-corrupted data. Bioinformatics, 2017, 33, 718-725.	1.8	49
2139	In-silico experiments of zebrafish behaviour: modeling swimming in three dimensions. Scientific Reports, 2017, 7, 39877.	1.6	27
2140	Active Interaction Mapping Reveals the Hierarchical Organization of Autophagy. Molecular Cell, 2017, 65, 761-774.e5.	4.5	31
2141	Dynamic genome-scale metabolic modeling of the yeast Pichia pastoris. BMC Systems Biology, 2017, 11, 27.	3.0	41
2142	Integration of metabolic, regulatory and signaling networks towards analysis of perturbation and dynamic responses. Current Opinion in Systems Biology, 2017, 2, 59-66.	1.3	13
2143	Photosynthesis in the Purple Bacteria. , 2017, , 193-224.		0
2144	A taxonomy of visualization tasks for the analysis of biological pathway data. BMC Bioinformatics, 2017, 18, 21.	1.2	24
2145	A system of recurrent neural networks for modularising, parameterising and dynamic analysis of cell signalling networks. BioSystems, 2017, 153-154, 6-25.	0.9	2

#	Article	IF	CITATIONS
2146	The new field of †precision psychiatry'. BMC Medicine, 2017, 15, 80.	2.3	347
2147	Taxonomic Diversity, Complexity and the Evolution of Senescence. , 2017, , 83-102.		4
2148	Volatile organic compounds in gastrointestinal stromal tumour tissue originating from patient-derived xenografts. Journal of Breath Research, 2017, 11, 037101.	1.5	2
2149	Observability of Boolean multiplex control networks. Scientific Reports, 2017, 7, 46495.	1.6	13
2150	The role of information technology in the future of 3D biofabrication. Journal of 3D Printing in Medicine, 2017, 1, 63-74.	1.0	7
2151	In silico polypharmacology of natural products. Briefings in Bioinformatics, 2018, 19, 1153-1171.	3.2	95
2152	The Need for Systems Tools in the Practice of Clinical Medicine. Systems Engineering, 2017, 20, 3-20.	1.6	15
2153	Effective covalent immobilization of quinone and aptamer onto a gold electrode via thiol addition for sensitive and selective protein biosensing. Talanta, 2017, 164, 244-248.	2.9	21
2154	The Philosophy of Biology. Analysis, 2017, 77, 412-432.	0.3	2
2155	Relationship between individual and group learning in a marine teleost: A case study with sea bass under self-feeding conditions. Learning and Behavior, 2017, 45, 276-286.	0.5	3
2156	The Protein Interactome of Streptococcus pneumoniae and Bacterial Meta-interactomes Improve Function Predictions. MSystems, 2017, 2, .	1.7	30
2157	Dopamine modified hyperbranched TiO 2 arrays based ultrasensitive photoelectrochemical immunosensor for detecting neuron specific enolase. Analytical Biochemistry, 2017, 531, 48-55.	1.1	31
2158	A shear-enhanced CNT-assembly nanosensor platform for ultra-sensitive and selective protein detection. Biosensors and Bioelectronics, 2017, 97, 143-149.	5. 3	29
2159	The cytokine network in women with an asymptomatic short cervix and the risk of preterm delivery. American Journal of Reproductive Immunology, 2017, 78, e12686.	1.2	35
2160	Chemical roots of biological evolution: the origins of life as a process of development of autonomous functional systems. Open Biology, 2017, 7, 170050.	1.5	71
2161	Cellular Potts modeling of complex multicellular behaviors in tissue morphogenesis. Development Growth and Differentiation, 2017, 59, 329-339.	0.6	80
2163	Derivation and Use of Mathematical Models in Systems Biology. , 2017, , 339-367.		0
2164	Computational Network Approaches and Their Applications for Complex Diseases. Translational Medicine Research, 2017, , 337-352.	0.0	0

#	Article	IF	CITATIONS
2170	System pharmacogenomics application in infectious diseases. Briefings in Functional Genomics, 2017, 16, 274-280.	1.3	3
2171	Interdisciplinary Discourse., 2017,,.		14
2172	Graph Theory-Based Analysis of the Lymph Node Fibroblastic Reticular Cell Network. Methods in Molecular Biology, 2017, 1591, 43-57.	0.4	7
2174	Systems Biology of Metabolism. Annual Review of Biochemistry, 2017, 86, 245-275.	5.0	173
2175	First Complex Systems Digital Campus World E-Conference 2015. Springer Proceedings in Complexity, 2017, , .	0.2	2
2176	AVP1: One Protein, Many Roles. Trends in Plant Science, 2017, 22, 154-162.	4.3	78
2177	Harnessing benefit from targeting tumor associated carbohydrate antigens. Human Vaccines and Immunotherapeutics, 2017, 13, 323-331.	1.4	10
2178	Biological Complexity and the Need for Computational Approaches. History, Philosophy and Theory of the Life Sciences, 2017, , 169-180.	0.4	2
2179	Philosophy of Systems Biology. History, Philosophy and Theory of the Life Sciences, 2017, , .	0.4	15
2180	Introduction to Philosophy of Systems Biology. History, Philosophy and Theory of the Life Sciences, 2017, , 1-23.	0.4	3
2182	Quantitative systems toxicology. Current Opinion in Toxicology, 2017, 4, 79-87.	2.6	32
2183	Fluorescence-coded DNA Nanostructure Probe System to Enable Discrimination of Tumor Heterogeneity via a Screening of Dual Intracellular microRNA Signatures in situ. Scientific Reports, 2017, 7, 13499.	1.6	5
2184	Towards a first implementation of the WLIMES approach in living system studies advancing the diagnostics and therapy in augmented personalized medicine. BioSystems, 2017, 162, 177-204.	0.9	1
2186	Guidelines for Developing Successful Short Advanced Courses in Systems Medicine and Systems Biology. Cell Systems, 2017, 5, 168-175.	2.9	7
2187	Cellular Metabolism at the Systems Level. Springer Theses, 2017, , 1-24.	0.0	1
2188	Towards a peptide-based vaccine against Shigella sonnei: A subtractive reverse vaccinology based approach. Biologicals, 2017, 50, 87-99.	0.5	71
2189	What does endotyping mean for treatment in chronic obstructive pulmonary disease?. Lancet, The, 2017, 390, 980-987.	6.3	78
2190	The interdependent network of gene regulation and metabolism is robust where it needs to be. Nature Communications, 2017, 8, 534.	5.8	53

#	Article	IF	CITATIONS
2191	Characterising the development of the understanding of human body systems in high-school biology students – a longitudinal study. International Journal of Science Education, 2017, 39, 2092-2127.	1.0	31
2192	Gene Ontology-Based Analysis of Zebrafish Omics Data Using the Web Tool Comparative Gene Ontology. Zebrafish, 2017, 14, 492-494.	0.5	26
2193	A Stability Analysis Method for Biochemical Reaction System with Inhibitory Feedback Loop. Electronics and Communications in Japan, 2017, 100, 24-33.	0.3	1
2194	Impact of implementation choices on quantitative predictions of cell-based computational models. Journal of Computational Physics, 2017, 345, 752-767.	1.9	26
2195	Apple, from omics to systemic function. Plant Growth Regulation, 2017, 83, 1-11.	1.8	21
2196	Developing integrated PBPK/PD coupled mechanistic pathway model (miRNA-BDNF): An approach towards system toxicology. Toxicology Letters, 2017, 280, 79-91.	0.4	17
2197	Hepatic Dysfunction Caused by Consumption of a High-Fat Diet. Cell Reports, 2017, 21, 3317-3328.	2.9	68
2198	Maximum response perturbation-based control of virus infection model with time-delays. Russian Journal of Numerical Analysis and Mathematical Modelling, 2017, 32, .	0.2	6
2199	Towards a Distributed Multiagent Learning-Based Design Optimization Method., 2017,,.		5
2200	CBNSimulator: a simulator tool for understanding the behaviour of complex biomolecular networks using discrete time simulation. Procedia Computer Science, 2017, 112, 514-523.	1.2	2
2201	Exploring the emergence of complexity using synthetic replicators. Chemical Society Reviews, 2017, 46, 7274-7305.	18.7	66
2202	The application of model-based systems engineering to the practice of clinical medicine., 2017,,.		3
2203	Iterative Systems Biology for Medicine – Time for advancing from network signatures to mechanistic equations. Current Opinion in Systems Biology, 2017, 3, 111-118.	1.3	4
2204	State of the art in medical applications using non-thermal atmospheric pressure plasma. Reviews of Modern Plasma Physics, 2017, 1, 1.	2.2	90
2206	Next-generation mammalian genetics toward organism-level systems biology. Npj Systems Biology and Applications, 2017, 3, 15.	1.4	16
2207	The ANTS problem. Distributed Computing, 2017, 30, 149-168.	0.7	16
2208	Phenotyping the Immune Response to Trauma: A Multiparametric Systems Immunology Approach*. Critical Care Medicine, 2017, 45, 1523-1530.	0.4	64
2209	System-wide organization of actin cytoskeleton determines organelle transport in hypocotyl plant cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5741-E5749.	3.3	44

#	ARTICLE	IF	CITATIONS
2210	Cell Cycle Synchronization. Methods in Molecular Biology, 2017, , .	0.4	5
2211	Natural selection as an emergent process: instructional implications. Journal of Biological Education, 2017, 51, 247-260.	0.8	10
2212	In pursuit of Sustainable Development Goal (SDG) number 7: Will biofuels be reliable?. Renewable and Sustainable Energy Reviews, 2017, 75, 927-937.	8.2	103
2213	Molecular Network Dynamics of Cell Cycle Control: Periodicity of Start and Finish. Methods in Molecular Biology, 2017, 1524, 331-349.	0.4	7
2214	Network-Oriented Approaches to Anticancer Drug Response. Methods in Molecular Biology, 2017, 1513, 101-117.	0.4	4
2215	Network dynamics: quantitative analysis of complex behavior in metabolism, organelles, and cells, from experiments to models and back. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2017, 9, e1352.	6.6	38
2216	Systems pharmacology and enhanced pharmacodynamic models for understanding antibody-based drug action and toxicity. MAbs, 2017, 9, 15-28.	2.6	11
2218	Looking for Computers in the Biological Cell. After Twenty Years. Emergence, Complexity and Computation, 2017, , 805-853.	0.2	0
2219	Advances on plant–pathogen interactions from molecular toward systems biology perspectives. Plant Journal, 2017, 90, 720-737.	2.8	81
2220	Plant-Derived Terpenes: A Feedstock for Specialty Biofuels. Trends in Biotechnology, 2017, 35, 227-240.	4.9	124
2221	Unraveling cellular pathways contributing to drug-induced liver injury by dynamical modeling. Expert Opinion on Drug Metabolism and Toxicology, 2017, 13, 5-17.	1.5	17
2222	Experimental design trade-offs for gene regulatory network inference: An in silico study of the yeast Saccharomyces cerevisiae cell cycle. , 2017, , .		0
2223	Engineering solutions for cancer. Convergent Science Physical Oncology, 2017, 3, 010201.	2.6	0
2224	Systems biology: transforming our understanding of disease. The Prescriber, 2017, 28, 30-32.	0.1	1
2225	Animating embryos: thein totorepresentation of life. British Journal for the History of Science, 2017, 50, 521-535.	0.1	10
2226	Stability analysis of Wnt-ERK cellular signalling by using Nyquist criterion. , 2017, , .		1
2227	Aggregates of positive impulse response systems: A decomposition approach for complex networks. , 2017, , .		4
2228	Graphical Modeling Meets Systems Pharmacology. Gene Regulation and Systems Biology, 2017, 11, 117762501769193.	2.3	4

#	Article	IF	CITATIONS
2231	Template for preparation of papers for Chinese control conference., 2017,,.		0
2232	RECoN: Rice Environment Coexpression Network for Systems Level Analysis of Abiotic-Stress Response. Frontiers in Plant Science, 2017, 8, 1640.	1.7	39
2233	Metabolomics and Exercise: possibilities and perspectives. Motriz Revista De Educacao Fisica, 2017, 23, .	0.3	12
2234	REVIEW-ARTICLE Bioinformatics: an overview and its applications. Genetics and Molecular Research, 2017, 16, .	0.3	42
2235	Reaction Networks as a Language for Systemic Modeling: Fundamentals and Examples. Systems, 2017, 5, 11.	1.2	15
2236	Optimization-Based Approaches to Control of Probabilistic Boolean Networks. Algorithms, 2017, 10, 31.	1.2	11
2237	Critical Issues in Modelling Lymph Node Physiology. Computation, 2017, 5, 3.	1.0	10
2238	Fluctuation of Information Entropy Measures in Cell Image. Entropy, 2017, 19, 565.	1.1	5
2239	The Peculiar Glycolytic Pathway in Hyperthermophylic Archaea: Understanding Its Whims by Experimentation In Silico. International Journal of Molecular Sciences, 2017, 18, 876.	1.8	7
2240	Systems Biology: Methods and Applications. , 2017, , 434-480.		0
2241	Models of Models: A Translational Route for Cancer Treatment and Drug Development. Frontiers in Oncology, 2017, 7, 219.	1.3	16
2242	HSimulator: Hybrid Stochastic/Deterministic Simulation of Biochemical Reaction Networks. Complexity, 2017, 2017, 1-12.	0.9	1
2243	Steady-State-Preserving Simulation of Genetic Regulatory Systems. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-16.	0.7	1
2244	Technological and Theoretical Aspects for Testing Electroporation on Liposomes. BioMed Research International, 2017, 2017, 1-10.	0.9	17
2245	Bioactive Nutrients and Nutrigenomics in Age-Related Diseases. Molecules, 2017, 22, 105.	1.7	61
2246	Linking gene dynamics to vascular hyperplasia – Toward a predictive model of vein graft adaptation. PLoS ONE, 2017, 12, e0187606.	1.1	7
2247	Bioenergetics-based modeling of Plasmodium falciparum metabolism reveals its essential genes, nutritional requirements, and thermodynamic bottlenecks. PLoS Computational Biology, 2017, 13, e1005397.	1.5	44
2248	The highly buffered Arabidopsis immune signaling network conceals the functions of its components. PLoS Genetics, 2017, 13, e1006639.	1.5	138

#	Article	IF	Citations
2249	Metabolic adjustment upon repetitive substrate perturbations using dynamic 13C-tracing in yeast. Microbial Cell Factories, 2017, 16, 161.	1.9	14
2250	Dynamic modeling of folliculogenesis signaling pathways in the presence of miRNAs expression. Journal of Ovarian Research, 2017, 10, 76.	1.3	4
2251	CancerLinker: Explorations of Cancer Study Network. , 2017, , .		2
2252	Information as a Morpho-Ontological Process. Proceedings (mdpi), 2017, 1, 62.	0.2	0
2253	Big Offensive and Defensive Mechanisms in Systems Immunity From System Modeling and Big Data Mining., 2017,, 249-372.		0
2254	Integrating Biological Covariates into Gene Expression-Based Predictors of Radiation Sensitivity. International Journal of Genomics, 2017, 2017, 1-9.	0.8	6
2255	A Hybrid Computation Model to Describe the Progression of Multiple Myeloma and Its Intra-Clonal Heterogeneity. Computation, 2017, 5, 16.	1.0	15
2256	Cancer, Depression and Cliniclowns. Journal of Depression & Anxiety, 2017, 06, .	0.1	0
2257	Big Mechanisms of Information Flow in Cellular Systems in Response to Environmental Stress Signals via System Identification and Data Mining. , 2017, , 155-248.		0
2258	Systems and Synthetic Biology Applied to Health. , 2017, , 183-213.		0
2259	Designing Smart Cities for Citizen Health & Designing Smart Cities for Cities		6
2260	Fabrication of an Electrochemical Immunosensor Containing Au–Ag Alloy for the Detection of Alpha Fetoprotein. International Journal of Electrochemical Science, 2017, , 10381-10389.	0.5	2
2261	The omics era: what can nuclear magnetic resonance tell us on metabolomics?. Microbiologia Medica, 2017, 32, .	0.3	0
2263	Big Drug Design Mechanisms via Systems Biology and Big Database Mining. , 2017, , 737-845.		1
2264	Mechanistic and topological explanations in medicine: the case of medical genetics and network medicine. Synth \tilde{A} se, 2018, 195, 147-173.	0.6	16
2265	Ecological autocatalysis: a central principle in ecosystem organization?. Ecological Monographs, 2018, 88, 304-319.	2.4	32
2266	Machine learning for bioinformatics and neuroimaging. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1248.	4.6	23
2267	Biomarkers for detection, prognosis and therapeutic assessment of neurological disorders. Reviews in the Neurosciences, 2018, 29, 771-789.	1.4	4

#	Article	IF	CITATIONS
2268	Mutational Pleiotropy and the Strength of Stabilizing Selection Within and Between Functional Modules of Gene Expression. Genetics, 2018, 208, 1601-1616.	1.2	14
2269	A novel computational approach for drug repurposing using systems biology. Bioinformatics, 2018, 34, 2817-2825.	1.8	87
2270	Human Stakeholders and the Use of Animals in Drug Development. Business and Society Review, 2018, 123, 3-58.	0.9	11
2271	PAGER 2.0: an update to the pathway, annotated-list and gene-signature electronic repository for Human Network Biology. Nucleic Acids Research, 2018, 46, D668-D676.	6.5	18
2272	The changing face of cancer diagnosis: From computational image analysis to systems biology. European Radiology, 2018, 28, 3160-3164.	2.3	26
2273	Understanding the high I-valine production in Corynebacterium glutamicum VWB-1 using transcriptomics and proteomics. Scientific Reports, 2018, 8, 3632.	1.6	34
2274	A compact fluorescence polarization analyzer with high-transmittance liquid crystal layer. Review of Scientific Instruments, 2018, 89, 024103.	0.6	15
2276	Global profiling of protein–DNA and protein–nucleosome binding affinities using quantitative mass spectrometry. Nature Communications, 2018, 9, 1653.	5.8	54
2277	Analyzing Feature Importance for Metabolomics Using Genetic Programming. Lecture Notes in Computer Science, 2018, , 68-83.	1.0	5
2278	â€~Omic' technologies as a helpful tool in radioecological research. Journal of Environmental Radioactivity, 2018, 189, 156-167.	0.9	15
2279	The significance of levels of organization for scientific research: A heuristic approach 1. Studies in History and Philosophy of Science Part C:Studies in History and Philosophy of Biological and Biomedical Sciences, 2018, 68-69, 34-41.	0.8	14
2280	Dynamic Influence Networks for Rule-Based Models. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 184-194.	2.9	20
2281	Development of CDK-targeted scoring functions for prediction of binding affinity. Biophysical Chemistry, 2018, 235, 1-8.	1.5	41
2282	Optimal Objective-Based Experimental Design for Uncertain Dynamical Gene Networks with Experimental Error. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 218-230.	1.9	10
2284	Mathematical modeling of cancer metabolism. Critical Reviews in Oncology/Hematology, 2018, 124, 37-40.	2.0	27
2285	Molecular mechanisms of detection and discrimination of dynamic signals. Scientific Reports, 2018, 8, 2480.	1.6	2
2286	Variable selection and chemometric models for discriminating symptomatic gout based on a metabolic target analysis. Journal of Chemometrics, 2018, 32, e2984.	0.7	1
2287	Active State Organization of Spontaneous Behavioral Patterns. Scientific Reports, 2018, 8, 1064.	1.6	14

#	Article	IF	CITATIONS
2288	Synergies resulting from a systems biology approach: integrating radiation epidemiology and radiobiology to optimize protection of the public after exposure to low doses of ionizing radiation. International Journal of Radiation Biology, 2018, 94, 2-7.	1.0	8
2289	Boolean network modeling in systems pharmacology. Journal of Pharmacokinetics and Pharmacodynamics, 2018, 45, 159-180.	0.8	60
2290	Modeling biological systems with uncertain kinetic data using fuzzy continuous Petri nets. BMC Systems Biology, 2018, 12, 42.	3.0	11
2291	Scientific Inquiry in Mathematics - Theory and Practice. , 2018, , .		10
2292	Bioinformatics challenges and perspectives when studying the effect of epigenetic modifications on alternative splicing. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170073.	1.8	13
2293	Eco-friendly Agro-biological Techniques for Enhancing Crop Productivity. , 2018, , .		6
2294	The promise of targeted proteomics for quantitative network biology. Current Opinion in Biotechnology, 2018, 54, 88-97.	3.3	15
2295	Vascular robustness: The missing parameter in cardiovascular risk prediction. Preventive Medicine Reports, 2018, 9, 107-113.	0.8	3
2296	Proteomic characterization of hippocampus of chronically socially isolated rats treated with fluoxetine: Depression-like behaviour and fluoxetine mechanism of action. Neuropharmacology, 2018, 135, 268-283.	2.0	34
2297	Bioengineering of DREB and NAC Transcriptional Factors for Enhanced Plant Tolerance Against Abiotic Stresses., 2018,, 173-211.		0
2298	Revolution of Alzheimer Precision Neurology. Passageway of Systems Biology and Neurophysiology. Journal of Alzheimer's Disease, 2018, 64, S47-S105.	1.2	122
2299	Genetic Programming. Lecture Notes in Computer Science, 2018, , .	1.0	2
2300	A novel complete-case analysis to determine statistical significance between treatments in an intention-to-treat population of randomized clinical trials involving missing data. Statistical Methods in Medical Research, 2018, 27, 1067-1075.	0.7	1
2301	A Dynamic Version of Hylomorphism. Axiomathes, 2018, 28, 13-36.	0.3	3
2302	Graphene oxide@gold nanorods-based multiple-assisted electrochemiluminescence signal amplification strategy for sensitive detection of prostate specific antigen. Biosensors and Bioelectronics, 2018, 99, 92-98.	5.3	105
2303	Editorial overview: Plant synthetic and systems biology. Current Opinion in Biotechnology, 2018, 49, viii-xi.	3.3	6
2304	Differential gene regulatory networks in development and disease. Cellular and Molecular Life Sciences, 2018, 75, 1013-1025.	2.4	78
2305	Systems and synthetic biology for the biotechnological application of cyanobacteria. Current Opinion in Biotechnology, 2018, 49, 94-99.	3.3	90

#	Article	IF	CITATIONS
2306	Advances in metabolome information retrieval: turning chemistry into biology. Part I: analytical chemistry of the metabolome. Journal of Inherited Metabolic Disease, 2018, 41, 379-391.	1.7	29
2307	Hessianâ€based quantitative image analysis of hostâ€pathogen confrontation assays. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 346-356.	1.1	39
2308	In Silico Analysis of the Regulation of the Photosynthetic Electron Transport Chain in C3 Plants. Plant Physiology, 2018, 176, 1247-1261.	2.3	53
2309	The choreography of a new research field: Aggregation, circulation and oscillation. Environment and Planning A, 2018, 50, 1764-1784.	2.1	14
2310	Reconstructing High-Quality Large-Scale Metabolic Models with merlin. Methods in Molecular Biology, 2018, 1716, 1-36.	0.4	13
2311	Analyzing and Designing Cell Factories with OptFlux. Methods in Molecular Biology, 2018, 1716, 37-76.	0.4	4
2312	Systems biology for nursing in the era of big data and precision health. Nursing Outlook, 2018, 66, 283-292.	1.5	25
2313	Observability of Boolean Control Networks with Time-Variant Delays in States. Journal of Systems Science and Complexity, 2018, 31, 436-445.	1.6	14
2315	The Emerging Theoretical Framework of Life Course Health Development., 2018,, 19-43.		45
2316	Stochastic simulation of multiscale complex systems with PISKaS: AÂrule-based approach. Biochemical and Biophysical Research Communications, 2018, 498, 342-351.	1.0	9
2317	Chlorogenic acid (CGA): A pharmacological review and call for further research. Biomedicine and Pharmacotherapy, 2018, 97, 67-74.	2.5	899
2318	Systems Biology. Methods in Molecular Biology, 2018, , .	0.4	0
2319	A Network-Based Integrative Workflow to Unravel Mechanisms Underlying Disease Progression. Methods in Molecular Biology, 2018, 1702, 247-276.	0.4	6
2320	Systems Biology-Driven Hypotheses Tested In Vivo: The Need to Advancing Molecular Imaging Tools. Methods in Molecular Biology, 2018, 1702, 337-359.	0.4	1
2321	Unifying the trans-disciplinary arsenal of project management tools in a single logical framework: Further suggestion for IUCN project cycle development. Journal for Nature Conservation, 2018, 41, 63-72.	0.8	50
2322	Parameters Estimation in Phase-Space Landscape Reconstruction of Cell Fate: A Systems Biology Approach. Methods in Molecular Biology, 2018, 1702, 125-170.	0.4	4
2324	The Deconstruction of Supramolecular Structures Based on Modular Precise Macromolecules. Macromolecular Chemistry and Physics, 2018, 219, 1700390.	1.1	6
2325	Flexibility of Boolean Network Reservoir Computers in Approximating Arbitrary Recursive and Non-Recursive Binary Filters. Entropy, 2018, 20, 954.	1.1	9

#	Article	IF	CITATIONS
2326	Calibration of Rule-Based Stochastic Biochemical Models using Statistical Model Checking. , 2018, , .		4
2327	Gluing life together. Computer simulation in the life sciences: an introduction. History and Philosophy of the Life Sciences, 2018, 40, 70.	0.6	2
2328	Control-theoretic methods for biological networks. , 2018, , .		9
2329	Fuzzy Petri nets for modelling of uncertain biological systems. Briefings in Bioinformatics, 2018, , .	3.2	14
2332	Parallel Pair-Wise Interaction for Multi-Agent Immune Systems Modelling. , 2018, , .		3
2333	Network spectra for drug-target identification in complex diseases: new guns against old foes. Applied Network Science, 2018, 3, 51.	0.8	10
2334	SyNDI: synchronous network data integration framework. BMC Bioinformatics, 2018, 19, 403.	1.2	1
2335	Data assimilation and multisource decision-making in systems biology based on unobtrusive Internet-of-Things devices. BioMedical Engineering OnLine, 2018, 17, 147.	1.3	2
2336	A Novel Systems Pharmacology Method to Investigate Molecular Mechanisms of Scutellaria barbata D. Don for Non-small Cell Lung Cancer. Frontiers in Pharmacology, 2018, 9, 1473.	1.6	25
2337	Systems Biology: A Powerful Tool for Drug Development. Current Topics in Medicinal Chemistry, 2018, 18, 1745-1754.	1.0	9
2338	Multi-experiment nonlinear mixed effect modeling of single-cell translation kinetics after transfection. Npj Systems Biology and Applications, $2018,4,1.$	1.4	66
2339	Systems Biology Understanding of the Effects of Lithium on Affective and Neurodegenerative Disorders. Frontiers in Neuroscience, 2018, 12, 933.	1.4	11
2340	Predicting Tumor Growth and Ligand Dependence from mRNA by Combining Machine Learning with Mechanistic Modeling. Methods in Pharmacology and Toxicology, 2018, , 1.	0.1	0
2341	Measuring Single-Cell Phenotypic Growth Heterogeneity Using a Microfluidic Cell Volume Sensor. Scientific Reports, 2018, 8, 17809.	1.6	9
2342	Active Acupoints Differ from Inactive Acupoints in Modulating Key Plasmatic Metabolites of Hypertension: A Targeted Metabolomics Study. Scientific Reports, 2018, 8, 17824.	1.6	6
2343	Systems Toxicology and Virtual Tissue Models. , 2018, , 351-362.		1
2344	Application of metabolomics in toxicity evaluation of traditional Chinese medicines. Chinese Medicine, 2018, 13, 60.	1.6	32
2345	Discovering biomarkers in bladder cancer by metabolomics. Biomarkers in Medicine, 2018, 12, 1347-1359.	0.6	21

#	Article	IF	CITATIONS
2346	Bioinformatics and Computational Biology in Toxicology: Gateways for Precision Medicine. , 2018, , 720-728.		1
2347	Systems biology primer: the basic methods and approaches. Essays in Biochemistry, 2018, 62, 487-500.	2.1	128
2348	From systems to biology: A computational analysis of the research articles on systems biology from 1992 to 2013. PLoS ONE, 2018, 13, e0200929.	1.1	9
2349	Assessing <i>Escherichia coli</i> metabolism models and simulation approaches in phenotype predictions: Validation against experimental data. Biotechnology Progress, 2018, 34, 1344-1354.	1.3	1
2350	Text mining systems biology: Turning the microscope back on the observer. Current Opinion in Systems Biology, 2018, 11, 117-122.	1.3	6
2351	libRCGA: a C library for real-coded genetic algorithms for rapid parameter estimation of kinetic models. IPSJ Transactions on Bioinformatics, 2018, 11, 31-40.	0.2	6
2352	Silver nanoparticles conjugated with Neurotrophin 3 upregulate myelin gene transcription pathway. Journal of Theoretical Biology, 2018, 459, 111-118.	0.8	2
2353	Metabolomic study of mouse embryonic fibroblast cells in response to autophagy based on high resolution gas chromatography–mass spectrometry. International Journal of Mass Spectrometry, 2018, 434, 215-221.	0.7	6
2354	Interactions between Metal Oxides and Biomolecules: from Fundamental Understanding to Applications. Chemical Reviews, 2018, 118, 11118-11193.	23.0	167
2355	Omics Applications for Systems Biology. Advances in Experimental Medicine and Biology, 2018, , .	0.8	12
2356	Recent Development in Omics Studies. Advances in Experimental Medicine and Biology, 2018, 1102, 1-9.	0.8	14
2357	Proteomics in Systems Biology. Advances in Experimental Medicine and Biology, 2018, 1102, 31-49.	0.8	20
2358	From mind to molecules and back to mindâ€"Metatheoretical limits and options for systems neuropsychiatry. Chaos, 2018, 28, 106325.	1.0	8
2359	Dynamic Optimization with Particle Swarms (DOPS): a meta-heuristic for parameter estimation in biochemical models. BMC Systems Biology, 2018, 12, 87.	3.0	6
2360	Steps Toward an Integrative Clinical Systems Psychology. Frontiers in Psychology, 2018, 9, 1616.	1.1	12
2361	Computational Intelligence for Parameter Estimation of Biochemical Systems. , 2018, , .		21
2362	Cytoprotective Effects of Natural Compounds against Oxidative Stress. Antioxidants, 2018, 7, 147.	2.2	57
2363	Integrated Systems and Chemical Biology Approach for Targeted Therapies. , 2018, , 1-19.		O

#	Article	IF	CITATIONS
2364	Augmentation of crop productivity through interventions of omics technologies in India: challenges and opportunities. 3 Biotech, 2018, 8, 454.	1.1	21
2365	Omics in Weed Science: A Perspective from Genomics, Transcriptomics, and Metabolomics Approaches. Weed Science, 2018, 66, 681-695.	0.8	36
2367	The Systems Biology of Single-Cell Aging. IScience, 2018, 7, 154-169.	1.9	22
2368	Polymer-Based Nanomaterials for Photothermal Therapy: From Light-Responsive to Multifunctional Nanoplatforms for Synergistically Combined Technologies. Biomacromolecules, 2018, 19, 4147-4167.	2.6	81
2369	What Is Stress? A Systems Perspective. Integrative and Comparative Biology, 2018, 58, 1019-1032.	0.9	70
2370	Model and movement: studying cell movement in early morphogenesis, 1900 to the present. History and Philosophy of the Life Sciences, 2018, 40, 59.	0.6	13
2371	The future of drug development: the paradigm shift towards systems therapeutics. Drug Discovery Today, 2018, 23, 1990-1995.	3. 2	21
2372	Identification of a Novel Clinical Phenotype of Severe Malaria using a Network-Based Clustering Approach. Scientific Reports, 2018, 8, 12849.	1.6	4
2373	Robust Approaches to Generating Reliable Predictive Models in Systems Biology. RNA Technologies, 2018, , 301-312.	0.2	1
2374	Quantification of Axial Abnormality Due to Cerebellar Ataxia with Inertial Measurements. Sensors, 2018, 18, 2791.	2.1	31
2375	Visualization of Biomedical Data. Annual Review of Biomedical Data Science, 2018, 1, 275-304.	2.8	63
2376	BIOPYDB: A Dynamic Human Cell Specific Biochemical Pathway Database with Advanced Computational Analyses Platform. Journal of Integrative Bioinformatics, 2018, 15, .	1.0	2
2377	Modeling in STEM. , 2018, , 29-42.		1
2378	A Combined InÂVitro/In Silico Approach to Identifying Off-Target Receptor Toxicity. IScience, 2018, 4, 84-96.	1.9	5
2379	Urinary Metabolomic Study of Chlorogenic Acid in a Rat Model of Chronic Sleep Deprivation Using Gas Chromatography-Mass Spectrometry. International Journal of Genomics, 2018, 2018, 1-11.	0.8	11
2380	Modeling Gene Transcriptional Regulation: A Primer. Computational Biology, 2018, , 27-39.	0.1	1
2381	Bio-modeling Using Petri Nets: A Computational Approach. Computational Biology, 2018, , 3-26.	0.1	4
2382	Predictive Systems Toxicology. Methods in Molecular Biology, 2018, 1800, 535-557.	0.4	4

#	ARTICLE	IF	CITATIONS
2383	Theoretical and Applied Aspects of Systems Biology. Computational Biology, 2018, , .	0.1	3
2384	Novel diagnostic techniques. , 2018, , 1-40.		1
2385	Complex Reaction Kinetics in Chemistry: A Unified Picture Suggested by Mechanics in Physics. Complexity, 2018, 2018, 1-16.	0.9	3
2386	High-Dimensional Immunology for Schizophrenia Research: A Short Perspective. Schizophrenia Bulletin, 2018, 44, 1005-1009.	2.3	1
2387	Basic Principles of Building aÂMathematical Model of Immune Response. , 2018, , 15-34.		0
2388	Architecting a System Model for Personalized Healthcare Delivery and Managed Individual Health Outcomes. Complexity, 2018, 2018, 1-24.	0.9	23
2389	Computational Toxicology. Methods in Molecular Biology, 2018, , .	0.4	7
2390	Plant Bio-Wars: Maize Protein Networks Reveal Tissue-Specific Defense Strategies in Response to a Root Herbivore. Journal of Chemical Ecology, 2018, 44, 727-745.	0.9	10
2391	Design of survivable networks in the presence of aging. Europhysics Letters, 2018, 122, 36003.	0.7	4
2392	The Evolution of Suicide. Evolutionary Psychology, 2018, , .	1.8	16
2394	Betulinic acid as apoptosis activator: Molecular mechanisms, mathematical modeling and chemical modifications. Life Sciences, 2018, 209, 24-33.	2.0	45
2395	A novel principled method for the measurement of vascular robustness uncovers hidden risk for premature CVD death. Journal of Applied Physiology, 2018, 125, 1931-1943.	1.2	2
2396	Decentralized topology identification of complex networks with sensor random delays and disturbances. , $2018, \ldots$		0
2397	Tamoxifen-Induced Apoptosis of MCF-7 Cells via GPR30/PI3K/MAPKs Interactions: Verification by ODE Modeling and RNA Sequencing. Frontiers in Physiology, 2018, 9, 907.	1.3	40
2398	"Keepers― Last-Line, Anti-suicide Defences. Evolutionary Psychology, 2018, , 125-151.	1.8	0
2399	Molecular Pharmacognosy—A New Borderline Discipline Between Molecular Biology and Pharmacognosy. Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques, 2018, , 665-720.	0.6	6
2400	In silico predicted transcriptional regulatory control of steroidogenesis in spawning female fathead minnows (Pimephales promelas). Journal of Theoretical Biology, 2018, 455, 179-190.	0.8	1
2401	The Inherent Human Aging Process and the Facilitating Role of Exercise. Frontiers in Physiology, 2018, 9, 1135.	1.3	22

#	Article	IF	CITATIONS
2402	COMPUTATIONAL MODELING OF PASS EFFECTIVENESS IN SOCCER. International Journal of Modeling, Simulation, and Scientific Computing, 2018, 21, 1850010.	0.9	7
2403	Quantitative Simulations Predict Treatment Strategies Against Fungal Infections in Virtual Neutropenic Patients. Frontiers in Immunology, 2018, 9, 667.	2.2	20
2404	Gingival Periodontal Disease (PD) Level-Butyric Acid Affects the Systemic Blood and Brain Organ: Insights Into the Systemic Inflammation of Periodontal Disease. Frontiers in Immunology, 2018, 9, 1158.	2.2	27
2405	The Genome-Scale Integrated Networks in Microorganisms. Frontiers in Microbiology, 2018, 9, 296.	1.5	26
2406	FindSim: A Framework for Integrating Neuronal Data and Signaling Models. Frontiers in Neuroinformatics, 2018, 12, 38.	1.3	8
2407	Hierarchical optimization for the efficient parametrization of ODE models. Bioinformatics, 2018, 34, 4266-4273.	1.8	24
2408	Network hubs in root-associated fungal metacommunities. Microbiome, 2018, 6, 116.	4.9	112
2409	Unlocking Human Brain Metabolism by Genome-Scale and Multiomics Metabolic Models: Relevance for Neurology Research, Health, and Disease. OMICS A Journal of Integrative Biology, 2018, 22, 455-467.	1.0	14
2410	Brain Morphogenesis and Developmental Neurotoxicology. , 2018, , 3-15.		2
2411	Promoting new concepts of skincare via skinomics and systems biologyâ€"From traditional skincare and efficacyâ€based skincare to precision skincare. Journal of Cosmetic Dermatology, 2018, 17, 968-976.	0.8	3
2412	Single-frequency impedance analysis of biofunctionalized dendrimer-encapsulated Pt nanoparticles-modified screen-printed electrode for biomolecular detection. Journal of Solid State Electrochemistry, 2018, 22, 2649-2657.	1.2	18
2413	An intuitive general rank-based correlation coefficient. Frontiers of Information Technology and Electronic Engineering, 2018, 19, 699-711.	1.5	0
2414	Massivizing Computer Systems: A Vision to Understand, Design, and Engineer Computer Ecosystems Through and Beyond Modern Distributed Systems. , 2018, , .		14
2415	Biomarkers of Physiological Responses to Periods of Intensified, Non-Resistance-Based Exercise Training in Well-Trained Male Athletes: A Systematic Review and Meta-Analysis. Sports Medicine, 2018, 48, 2517-2548.	3.1	44
2416	A systems perspective of heterocellular signaling. Essays in Biochemistry, 2018, 62, 607-617.	2.1	12
2417	Genome-Scale Metabolic Model of Actinosynnema pretiosum ATCC 31280 and Its Application for Ansamitocin P-3 Production Improvement. Genes, 2018, 9, 364.	1.0	9
2418	Cell studio: A platform for interactive, 3D graphical simulation of immunological processes. APL Bioengineering, 2018, 2, 026107.	3.3	5
2419	The brain-adipocyte-gut network: Linking obesity and depression subtypes. Cognitive, Affective and Behavioral Neuroscience, 2018, 18, 1121-1144.	1.0	35

#	Article	IF	Citations
2420	Defining Pharmacological Targets by Analysis of Virus–Host Protein Interactions. Advances in Protein Chemistry and Structural Biology, 2018, 111, 223-242.	1.0	3
2421	Designing Patient-Oriented Healthcare Services as a System of Systems. , 2018, , .		6
2422	The Potential of Tree and Shrub Legumes in Agroforestry Systems. , 0, , .		6
2423	Computing with biological switches and clocks. Natural Computing, 2018, 17, 761-779.	1.8	45
2424	Genetic Epidemiology. Methods in Molecular Biology, 2018, , .	0.4	1
2425	Reverse Engineering and Its Applications. , 2018, , 95-110.		1
2426	Introduction to Systems Evolutionary Biology. , 2018, , 3-9.		0
2427	Evolutionary Gene Regulatory Networks and Biochemical Networks. , 2018, , 25-64.		0
2428	On the Adaptive Design Rules of Biochemical Networks in Evolution. , 2018, , 123-137.		0
2430	NetMiner-an ensemble pipeline for building genome-wide and high-quality gene co-expression network using massive-scale RNA-seq samples. PLoS ONE, 2018, 13, e0192613.	1.1	41
2431	From Identification to Function: Current Strategies to Prioritise and Follow-Up GWAS Results. Methods in Molecular Biology, 2018, 1793, 259-275.	0.4	2
2432	OmicsNet:Âa web-based tool for creation and visual analysis of biological networks in 3D space. Nucleic Acids Research, 2018, 46, W514-W522.	6.5	126
2433	GPU-Powered Multi-Swarm Parameter Estimation of Biological Systems: A Master-Slave Approach. , 2018, , .		6
2434	Mathematical Immunology of Virus Infections. , 2018, , .		42
2435	Systems biology of eukaryotic superorganisms and the holobiont concept. Theory in Biosciences, 2018, 137, 117-131.	0.6	15
2436	The history and promise of holism in health promotion. Health Promotion International, 2019, 34, 824-832.	0.9	9
2437	In silico clinical trials: concepts and early adoptions. Briefings in Bioinformatics, 2019, 20, 1699-1708.	3.2	156
2438	Quantitative Immunology by Data Analysis Using Mathematical Models. , 2019, , 984-992.		3

#	Article	IF	CITATIONS
2439	Computational Systems Biology Applications. , 2019, , 66-73.		0
2440	Cell Modeling and Simulation. , 2019, , 864-873.		1
2441	A systemsâ€based model of Alzheimer's disease. Alzheimer's and Dementia, 2019, 15, 168-171.	0.4	26
2442	Detection of Biomarkers in Blood Using Liquid Crystals Assisted with Aptamer-Target Recognition Triggered in Situ Rolling Circle Amplification on Magnetic Beads. Analytical Chemistry, 2019, 91, 11653-11660.	3.2	41
2443	Developing Student's Computational Thinking through Agent-Based Modeling in Secondary Education. , 2019, , .		1
2444	Infrastructures of systems biology that facilitate functional genomic study in rice. Rice, 2019, 12, 15.	1.7	21
2445	Co-emergence and Collapse: The Mesoscopic Approach for Conceptualizing and Investigating the Functional Integration of Organisms. Frontiers in Physiology, 2019, 10, 924.	1.3	10
2446	Repurposing E. coli by Engineering Quorum Sensing and Redox Genetic Circuits., 0,,.		2
2447	Characteristic analysis of the pathway-based weighted network of hypertension-related genes. Physica A: Statistical Mechanics and Its Applications, 2019, 533, 122069.	1.2	1
2448	Simulation of live-cell imaging system reveals hidden uncertainties in cooperative binding measurements. Physical Review E, 2019, 100, 010402.	0.8	2
2449	CRA toolbox: software package for conditional robustness analysis of cancer systems biology models in MATLAB. BMC Bioinformatics, 2019, 20, 385.	1.2	7
2450	Extensions of â, "1 regularization increase detection specificity for cell-type specific parameters in dynamic models. BMC Bioinformatics, 2019, 20, 395.	1.2	8
2451	Investigation of Precise Molecular Mechanistic Action of Tobacco-Associated Carcinogen `NNK´ Induced Carcinogenesis: A System Biology Approach. Genes, 2019, 10, 564.	1.0	7
2452	Biological Pathway Specificity in the Cell—Does Molecular Diversity Matter?. BioEssays, 2019, 41, 1800244.	1.2	9
2453	Stigmergy for Biological Spatial Modeling. Understanding Complex Systems, 2019, , 169-197.	0.3	0
2454	Rana A. Hogarth. Medicalizing Blackness: Making Racial Difference in the Atlantic World, 1780–1840 American Historical Review, 2019, 124, 1482-1483.	0.0	1
2455	Disease global behavior: A systematic study of the human interactome network reveals conserved topological features among categories of diseases. Informatics in Medicine Unlocked, 2019, 17, 100249.	1.9	5
2456	Frailty: implications for clinical practice and public health. Lancet, The, 2019, 394, 1365-1375.	6.3	1,341

#	Article	IF	CITATIONS
2459	Applications of molecular networks in biomedicine. Biology Methods and Protocols, 2019, 4, bpz012.	1.0	6
2460	WHAT ROLES FOR TRACK-STRUCTURE AND MICRODOSIMETRY IN THE ERA OF -omics AND SYSTEMS BIOLOGY?. Radiation Protection Dosimetry, 2019, 183, 22-25.	0.4	5
2461	A single-cell Systems Biology approach for disease-specific subpathway extraction. , 2019, , .		0
2462	Dilation Functions in Global Optimization. , 2019, , .		10
2463	Identification of a timeâ€varying intracellular signalling model through data clustering and parameter selection: application to NF―B signalling pathway induced by LPS in the presence of BFA. IET Systems Biology, 2019, 13, 169-179.	0.8	18
2464	Prediction of PD-L1 Expression in Neuroblastoma via Computational Modeling. Brain Sciences, 2019, 9, 221.	1.1	22
2465	Multiple-level biomedical event trigger recognition with transfer learning. BMC Bioinformatics, 2019, 20, 459.	1.2	6
2466	NeTFactor, a framework for identifying transcriptional regulators of gene expression-based biomarkers. Scientific Reports, 2019, 9, 12970.	1.6	12
2467	Modeling cell signaling in heterogeneous cancer environments. Current Opinion in Systems Biology, 2019, 17, 15-23.	1.3	1
2468	Predicting gene regulatory interactions based on spatial gene expression data and deep learning. PLoS Computational Biology, 2019, 15, e1007324.	1.5	42
2469	Massive computational acceleration by using neural networks to emulate mechanism-based biological models. Nature Communications, 2019, 10, 4354.	5.8	50
2470	Medical knowledge integration and "systems medicine― Needs, ambitions, limitations and options. Medical Hypotheses, 2019, 133, 109386.	0.8	13
2471	Artificial Gene Regulatory Networks—A Review. Artificial Life, 2019, 24, 296-328.	1.0	27
2472	Normativity in the Philosophy of Science. Metaphilosophy, 2019, 50, 36-62.	0.2	8
2473	Impact of Climate Change on Crops Adaptation and Strategies to Tackle Its Outcome: A Review. Plants, 2019, 8, 34.	1.6	901
2474	Translational Bioinformatics: Informatics, Medicine, and -Omics. , 2019, , 507-514.		0
2475	Systems Biology Understanding of the Effects of Lithium on Cancer. Frontiers in Oncology, 2019, 9, 296.	1.3	16
2476	Tools to reverse-engineer multicellular systems: case studies using the fruit fly. Journal of Biological Engineering, 2019, 13, 33.	2.0	9

#	Article	IF	CITATIONS
2477	Challenges of biofilm control and utilization: lessons from mathematical modelling. Journal of the Royal Society Interface, 2019, 16, 20190042.	1.5	36
2478	Accounting for complexity in medical education: a model of adaptive behaviour in medicine. Medical Education, 2019, 53, 861-873.	1.1	29
2479	Human Systems Biology and Metabolic Modelling: A Reviewâ€"From Disease Metabolism to Precision Medicine. BioMed Research International, 2019, 2019, 1-16.	0.9	56
2480	Stress responses in fish: From molecular to evolutionary processes. Science of the Total Environment, 2019, 684, 371-380.	3.9	122
2481	Complex Adaptive Systems. Understanding Complex Systems, 2019, , .	0.3	22
2482	Numerically modelling time and dose dependent cytotoxicity. Computational Toxicology, 2019, 12, 100090.	1.8	12
2483	Input–output networks offer new insights of economic structure. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121178.	1.2	33
2484	Vulnerability of Vietnam to typhoons: A spatial assessment based on hazards, exposure and adaptive capacity. Science of the Total Environment, 2019, 682, 31-46.	3.9	86
2485	Biochemical parameter estimation vs. benchmark functions: A comparative study of optimization performance and representation design. Applied Soft Computing Journal, 2019, 81, 105494.	4.1	45
2486	"Systems medicine―in the view of von Bertalanffy's "organismic biology―and systems theory. Systems Research and Behavioral Science, 2019, 36, 346-362.	0.9	12
2487	Control Theory Concepts for Modeling Uncertainty in Enzyme Kinetics of Biochemical Networks. Industrial & Engineering Chemistry Research, 2019, 58, 13544-13554.	1.8	17
2488	A systems biology approach to propose a new mechanism of regulation of repetitive prophylaxis of stable iodide on sodium/iodide symporter (NIS). Biochimie, 2019, 162, 208-215.	1.3	4
2489	Systems Biology – A Guide for Understanding and Developing Improved Strains of Lactic Acid Bacteria. Frontiers in Microbiology, 2019, 10, 876.	1.5	34
2490	A Systems Thinking Approach to Designing Clinical Models and Healthcare Services. Systems, 2019, 7, 18.	1.2	6
2491	Detection of AFP with an ultra-sensitive giant magnetoimpedance biosensor. Sensors and Actuators B: Chemical, 2019, 293, 53-58.	4.0	30
2492	Recent Advances in MS-Based Plant Proteomics: Proteomics Data Validation Through Integration with Other Classic and -Omics Approaches. Progress in Botany Fortschritte Der Botanik, 2019, , 77-101.	0.1	6
2493	Molecular Logic and Computational Synthetic Biology. Lecture Notes in Computer Science, 2019, , .	1.0	1
2494	webCEMiTool: Co-expression Modular Analysis Made Easy. Frontiers in Genetics, 2019, 10, 146.	1.1	27

#	Article	IF	CITATIONS
2495	High-Performance Modelling and Simulation for Big Data Applications. Lecture Notes in Computer Science, 2019, , .	1.0	7
2496	An Integrated Approach to Plant Biology via Multi-Analogous Methods. , 2019, , 57-126.		0
2497	Essentials of Bioinformatics, Volume I. , 2019, , .		8
2499	Computational Approaches in Theranostics: Mining and Predicting Cancer Data. Pharmaceutics, 2019, 11, 119.	2.0	19
2500	Integrative and theoretical research on the architecture of a biological system and its disorder. Journal of Physiological Sciences, 2019, 69, 433-451.	0.9	1
2501	Bioinformatics and Drug Discovery. Methods in Molecular Biology, 2019, , .	0.4	2
2502	A Bayesian Network Approach to Disease Subtype Discovery. Methods in Molecular Biology, 2019, 1939, 299-322.	0.4	2
2503	Next-generation human genetics for organism-level systems biology. Current Opinion in Biotechnology, 2019, 58, 137-145.	3.3	5
2504	Ag@Au Core–Shell Porous Nanocages with Outstanding SERS Activity for Highly Sensitive SERS Immunoassay. Sensors, 2019, 19, 1554.	2.1	12
2505	<p>Natural gypenosides: targeting cancer through different molecular pathways</p> . Cancer Management and Research, 2019, Volume 11, 2287-2297.	0.9	9
2506	The Pulse-Respiration Quotient: A Powerful but Untapped Parameter for Modern Studies About Human Physiology and Pathophysiology. Frontiers in Physiology, 2019, 10, 371.	1.3	35
2507	From genotype to phenotype: augmenting deep learning with networks and systems biology. Current Opinion in Systems Biology, 2019, 15, 68-73.	1.3	27
2509	Study of the Potential Endocrine-Disrupting Effects of Phenylurea Compounds on Neurohypophysis Cells <i>In Vitro</i> . International Journal of Endocrinology, 2019, 2019, 1-9.	0.6	4
2510	Using Mechanistic Models for Analysis of Proteomic Data. Methods in Molecular Biology, 2019, 1945, 265-270.	0.4	0
2511	Metabolomics Tools and Information Retrieval in Microbiome Hacking. , 2019, , 43-59.		0
2512	Practical steps to digital organism models, from laboratory model species to †Crops in silico. Journal of Experimental Botany, 2019, 70, 2403-2418.	2.4	19
2513	In-silico comparison of two induction regimens (7 + 3 vs 7 + 3 plus additional bone marrow eva in acute myeloid leukemia treatment. BMC Systems Biology, 2019, 13, 18.	luation)	10
2514	Comparative Assessment of Aspergillosis by Virtual Infection Modeling in Murine and Human Lung. Frontiers in Immunology, 2019, 10, 142.	2.2	15

#	Article	IF	CITATIONS
2515	Modular Organization and Emergence in Systems Biology., 2019,, 37-49.		5
2516	A Community-Level Perspective for Childhood Obesity Prevention. , 2019, , 287-298.		1
2517	Finite-time adaptive stability of gene regulatory networks. Neurocomputing, 2019, 338, 222-232.	3.5	23
2518	Bridging the Holistic-Reductionist Divide in Microbial Ecology. MSystems, 2019, 4, .	1.7	29
2519	Gene Identification and Characterization of Correlations for DEPs_DEGs Same Trend Responding to Salinity Adaptation in <i>Scylla paramamosain</i> International Journal of Genomics, 2019, 2019, 1-12.	0.8	11
2520	Emergent Properties and Stability in Hierarchical Biosystems: There Is no Privileged Level of Causation. , 2019, , 217-234.		3
2521	Emergence and Modularity in Life Sciences. , 2019, , .		7
2522	GeneFishing to reconstruct context specific portraits of biological processes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18943-18950.	3.3	6
2523	QTL fine mapping for intramuscular fat and fatty acid composition using high-density SNP chip array on SSC12 in Korean native pig \tilde{A} — Yorkshire F2 population. Czech Journal of Animal Science, 2019, 64, 180-188.	0.5	3
2524	Identification of Modules With Similar Gene Regulation and Metabolic Functions Based on Co-expression Data. Frontiers in Molecular Biosciences, 2019, 6, 139.	1.6	14
2525	WinBEST-KIT: Biochemical reaction simulator that can define and customize algebraic equations and events as GUI components. Journal of Bioinformatics and Computational Biology, 2019, 17, 1950036.	0.3	2
2526	Synthesis for controllability and observability of logical control networks. , 2019, , .		1
2527	Advances in Plant Transgenics: Methods and Applications. , 2019, , .		2
2530	Challenges in the calibration of large-scale ordinary differential equation models. IFAC-PapersOnLine, 2019, 52, 58-64.	0.5	10
2531	HIV/AIDS: Immunochemistry, Reductionism and Vaccine Design. , 2019, , .		6
2532	Recent Progress in Lab-On-a-Chip Systems for the Monitoring of Metabolites for Mammalian and Microbial Cell Research. Sensors, 2019, 19, 5027.	2.1	18
2533	Microbial Genomics in Sustainable Agroecosystems. , 2019, , .		5
2534	Introductory Chapter: Systems Biology Consolidating State of the Art Genetics and Bioinformatics. , 2019, , .		0

#	Article	IF	CITATIONS
2535	Computational Intelligence for Life Sciences. Fundamenta Informaticae, 2019, 171, 57-80.	0.3	5
2536	Using Omics Technologies and Systems Biology to Identify Epitope Targets for the Development of Monoclonal Antibodies Against Antibiotic-Resistant Bacteria. Frontiers in Immunology, 2019, 10, 2841.	2.2	11
2537	Parallelisation strategies for agent based simulation of immune systems. BMC Bioinformatics, 2019, 20, 579.	1.2	12
2538	Estimating numbers of intracellular molecules through analysing fluctuations in photobleaching. Scientific Reports, 2019, 9, 15238.	1.6	12
2539	Designing Technology and Healthcare Delivery Systems to Support Clinician and Patient Care Experiences: A Multi-Stakeholder Systems Engineering Co-Design Methodology. , 2019, , .		2
2540	Anakoinosis: Correcting Aberrant Homeostasis of Cancer Tissue—Going Beyond Apoptosis Induction. Frontiers in Oncology, 2019, 9, 1408.	1.3	17
2541	Using mechanistic models for the clinical interpretation of complex genomic variation. Scientific Reports, 2019, 9, 18937.	1.6	20
2542	HBXIP protein overexpression predicts the poor prognosis of pancreatic ductal adenocarcinomas. Pathology Research and Practice, 2019, 215, 343-346.	1.0	10
2543	Statistical Network Inference for Time-Varying Molecular Data with Dynamic Bayesian Networks. Methods in Molecular Biology, 2019, 1883, 25-48.	0.4	7
2544	Introduction. Breathprinting: What, Why, How. , 2019, , 1-11.		2
2545	Recent Advances in Microfluidic Techniques for Systems Biology. Analytical Chemistry, 2019, 91, 315-329.	3.2	5
2546	Development of indicators for the social dimension of sustainability in a U.S. business context. Journal of Cleaner Production, 2019, 212, 687-697.	4.6	51
2547	Potential nutraceutical and food additive properties and risks of coffee: a comprehensive overview. Critical Reviews in Food Science and Nutrition, 2019, 59, 3293-3319.	5.4	33
2548	Biofilm Engineering for Improving the Performance of Microbial Electrochemical Technologies. , 2019, , 315-338.		6
2549	General correlation coefficient based agglomerative clustering. Cluster Computing, 2019, 22, 553-583.	3.5	3
2550	Health, pre-disease and critical transition to disease in the psycho-immune-neuroendocrine network: Are there distinct states in the progression from health to major depressive disorder?. Physiology and Behavior, 2019, 198, 108-119.	1.0	31
2551	Gene Regulatory Networks. Methods in Molecular Biology, 2019, , .	0.4	41
2552	Scalable Inference of Ordinary Differential Equation Models of Biochemical Processes. Methods in Molecular Biology, 2019, 1883, 385-422.	0.4	22

#	Article	IF	CITATIONS
2553	Deciphering neural circuits for Caenorhabditis elegans behavior by computations and perturbations to genome and connectome. Current Opinion in Systems Biology, 2019, 13, 44-51.	1.3	5
2554	The art of vector engineering: towards the construction of nextâ€generation genetic tools. Microbial Biotechnology, 2019, 12, 125-147.	2.0	49
2555	Computational chemistry in drug lead discovery and design. International Journal of Quantum Chemistry, 2019, 119, e25678.	1.0	50
2556	Proteomics and phosphoproteomics in precision medicine: applications and challenges. Briefings in Bioinformatics, 2019, 20, 767-777.	3.2	34
2557	Coloured Petri nets for multilevel, multiscale and multidimensional modelling of biological systems. Briefings in Bioinformatics, 2019, 20, 877-886.	3.2	25
2558	A comparison of deterministic and stochastic approaches for sensitivity analysis in computational systems biology. Briefings in Bioinformatics, 2020, 21, 527-540.	3.2	7
2559	From Astrophysics to Unconventional Computation. Emergence, Complexity and Computation, 2020, , .	0.2	1
2560	A Systematic Review of <i>In Vitro</i> and <i>In Vivo</i> Radio Frequency Exposure Methods. IEEE Reviews in Biomedical Engineering, 2020, 13, 340-351.	13.1	8
2561	Mining Relationships among Multiple Entities in Biological Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 769-776.	1.9	14
2562	Robust Calibration of High Dimension Nonlinear Dynamical Models for Omics Data: An Application in Cancer Systems Biology. IEEE Transactions on Control Systems Technology, 2020, 28, 196-207.	3.2	7
2563	Closing the gap between formats for storing layout information in systems biology. Briefings in Bioinformatics, 2020, 21, 1249-1260.	3.2	12
2564	Use of Zebrafish in Drug Discovery Toxicology. Chemical Research in Toxicology, 2020, 33, 95-118.	1.7	315
2565	The N-space Episenome unifies cellular information space-time withinÂcognition-based evolution. Progress in Biophysics and Molecular Biology, 2020, 150, 112-139.	1.4	18
2566	Onâ€Demand Droplet Collection for Capturing Single Cells. Small, 2020, 16, e1902889.	5.2	29
2567	Nonlinear model of pneumatic conveying dryer for economic process control. Drying Technology, 2020, 38, 1516-1537.	1.7	6
2568	Complex Systems in Medicine. , 2020, , .		6
2569	Strategies for improving the electroactivity and specific metabolic functionality of microorganisms for various microbial electrochemical technologies. Biotechnology Advances, 2020, 39, 107468.	6.0	84
2570	Gene regulatory network inference resources: A practical overview. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2020, 1863, 194430.	0.9	93

#	Article	IF	CITATIONS
2571	Label-free detection of biomarker alpha fetoprotein in serum by ssDNA aptamer functionalized magnetic nanoparticles. Nanotechnology, 2020, 31, 095104.	1.3	12
2572	Biological computing., 2020, , 81-104.		0
2573	The greater inflammatory pathway—high clinical potential by innovative predictive, preventive, and personalized medical approach. EPMA Journal, 2020, 11, 1-16.	3.3	24
2574	The Untapped Opportunity and Challenge of Immunometabolism: A New Paradigm for Drug Discovery. Cell Metabolism, 2020, 31, 26-34.	7.2	34
2575	Fuzzy modeling and global optimization to predict novel therapeutic targets in cancer cells. Bioinformatics, 2020, 36, 2181-2188.	1.8	10
2576	Multi-tissue to whole plant metabolic modelling. Cellular and Molecular Life Sciences, 2020, 77, 489-495.	2.4	18
2577	Computational systems biology of cellular processes in Arabidopsis thaliana: an overview. Cellular and Molecular Life Sciences, 2020, 77, 433-440.	2.4	8
2578	Mitochondria under the spotlight: On the implications of mitochondrial dysfunction and its connectivity to neuropsychiatric disorders. Computational and Structural Biotechnology Journal, 2020, 18, 2535-2546.	1.9	10
2580	Multiple predictively equivalent risk models for handling missing data at time of prediction: With an application in severe hypoglycemia risk prediction for type 2 diabetes. Journal of Biomedical Informatics, 2020, 103, 103379.	2.5	12
2581	Modelling of processes in nerve fibres at the interface of physiology and mathematics. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2491-2498.	1.4	8
2582	EvoDevo: An Ongoing Revolution?. Philosophies, 2020, 5, 35.	0.4	2
2583	Tracing the footsteps of autophagy in computational biology. Briefings in Bioinformatics, 2021, 22, .	3.2	13
2584	Chaotic activation of developmental signalling pathways drives idiopathic pulmonary fibrosis. European Respiratory Review, 2020, 29, 190140.	3.0	31
2585	Investigating the Evolution and Development of Biological Systems from the Perspective of Thermo-Kinetics and Systems Theory. Origins of Life and Evolution of Biospheres, 2020, 50, 121-143.	0.8	1
2586	Increasing our ability to predict contemporary evolution. Nature Communications, 2020, 11, 5592.	5.8	29
2587	A biochemical network modeling of a whole-cell. Scientific Reports, 2020, 10, 13303.	1.6	9
2588	Deciphering the co-adaptation of codon usage between respiratory coronaviruses and their human host uncovers candidate therapeutics for COVID-19. Infection, Genetics and Evolution, 2020, 85, 104471.	1.0	17
2589	Comparison of gene regulatory networks to identify pathogenic genes for lymphoma. Journal of Bioinformatics and Computational Biology, 2020, 18, 2050029.	0.3	0

#	Article	IF	CITATIONS
2590	A New Bayesian Methodology for Nonlinear Model Calibration in Computational Systems Biology. Frontiers in Applied Mathematics and Statistics, 2020, 6, .	0.7	5
2591	Metabolomics as an Emerging Tool in the Search for Astrobiologically Relevant Biomarkers. Astrobiology, 2020, 20, 1251-1261.	1.5	16
2592	Networkâ€based approaches for understanding gene regulation and function in plants. Plant Journal, 2020, 104, 302-317.	2.8	35
2593	Integration of GC–MS and LC–MS for untargeted metabolomics profiling. Journal of Pharmaceutical and Biomedical Analysis, 2020, 190, 113509.	1.4	156
2594	Network and Systems Medicine: Position Paper of the European Collaboration on Science and Technology Action on Open Multiscale Systems Medicine. Network and Systems Medicine, 2020, 3, 67-90.	2.7	18
2595	Structured Learning in Biological Domain. Journal of Systems Science and Systems Engineering, 2020, 29, 440-453.	0.8	1
2596	A guideline and challenges toward the minimization of bacterial and eukaryotic genomes. Current Opinion in Systems Biology, 2020, 24, 127-134.	1.3	13
2597	SRM-MS Applications in Proteomics. , 2020, , 173-196.		O
2599	Evolution in the Debian GNU/Linux software network: analogies and differences with gene regulatory networks. Journal of the Royal Society Interface, 2020, 17, 20190845.	1.5	4
2600	Failures of Methodological Individualism: The Materiality of Social Systems. Journal of Social Philosophy, 2022, 53, 512-534.	0.6	7
2601	Neuroenergetics and "General Intelligence― A Systems Biology Perspective. Journal of Intelligence, 2020, 8, 31.	1.3	6
2602	Complexity in Biological Organization: Deconstruction (and Subsequent Restating) of Key Concepts. Entropy, 2020, 22, 885.	1.1	20
2603	LAITOR4HPC: A text mining pipeline based on HPC for building interaction networks. BMC Bioinformatics, 2020, 21, 365.	1.2	4
2604	Transfer and Transcriptomic Profiling in Liver and Brain of European Eels (<i>Anguilla anguilla</i>) After Dietâ&borne Exposure to Gold Nanoparticles. Environmental Toxicology and Chemistry, 2020, 39, 2450-2461.	2.2	2
2605	Deciphering the interaction of puerarin with cancer macromolecules: An <i>in silico</i> investigation. Journal of Biomolecular Structure and Dynamics, 2022, 40, 848-859.	2.0	18
2606	Application of Systems Engineering Principles and Techniques in Biological Big Data Analytics: A Review. Processes, 2020, 8, 951.	1.3	10
2607	Discontinuous Transitions and Rhythmic States in the D-Dimensional Kuramoto Model Induced by a Positive Feedback with the Global Order Parameter. Physical Review Letters, 2020, 125, 194101.	2.9	58
2608	Streamlining Natural Products Biomanufacturing With Omics and Machine Learning Driven Microbial Engineering. Frontiers in Bioengineering and Biotechnology, 2020, 8, 608918.	2.0	12

#	Article	IF	Citations
2609	A Serum Metabolic Profiling Analysis During the Formation of Fatty Liver in Landes Geese via GC-TOF/MS. Frontiers in Physiology, 2020, 11, 581699.	1.3	9
2610	Quantitative models of nitrogen-fixing organisms. Computational and Structural Biotechnology Journal, 2020, 18, 3905-3924.	1.9	16
2611	Wearable sweat sensing for prolonged, semicontinuous, and nonobtrusive health monitoring. View, 2020, 1, 20200077.	2.7	53
2612	Reporting of Hybrid Data and the Difficulties with Cross-Discipline Research Techniques. Proteomes, 2020, 8, 35.	1.7	2
2613	Extraction and Integration of Genetic Networks from Short-Profile Omic Data Sets. Metabolites, 2020, 10, 435.	1.3	6
2614	Development of Vulnerability Assessment Framework for Disaster Risk Reduction at Three Levels of Geopolitical Units in the Philippines. Sustainability, 2020, 12, 8815.	1.6	10
2615	Digital Twin for Drug Discovery and Developmentâ€"The Virtual Liver. Journal of the Indian Institute of Science, 2020, 100, 653-662.	0.9	34
2616	Multiple Realization in Systems Biology. Philosophy of Science, 2020, 87, 663-684.	0.5	2
2617	Perfect timing: Mobile brain/body imaging scaffolds the 4Eâ€cognition research program. European Journal of Neuroscience, 2021, 54, 8081-8091.	1.2	20
2618	Construction, comparison and evolution of networks in life sciences and other disciplines. Journal of the Royal Society Interface, 2020, 17, 20190610.	1.5	12
2619	The Application of Ion Mobility-Mass Spectrometry in Untargeted Metabolomics: from Separation to Identification. Journal of Analysis and Testing, 2020, 4, 163-174.	2.5	31
2620	Abiotic-stress tolerance in plants-system biology approach. , 2020, , 577-609.		6
2621	From personalised nutrition to precision medicine: the rise of consumer genomics and digital health. Proceedings of the Nutrition Society, 2020, 79, 300-310.	0.4	17
2622	A systematic strategy for the investigation of vaccines and drugs targeting bacteria. Computational and Structural Biotechnology Journal, 2020, 18, 1525-1538.	1.9	13
2623	Multi-objective Simulated Annealing Variants to Infer Gene Regulatory Network: A Comparative Study. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 2612-2623.	1.9	3
2624	Definitions of life as epistemic tools that reflect and foster the advance of biological knowledge. Synth \tilde{A} se, 2021, 198, 10565-10585.	0.6	6
2625	Prominence of IL6, IGF, TLR, and Bioenergetics Pathway Perturbation in Lung Tissues of Scleroderma Patients With Pulmonary Fibrosis. Frontiers in Immunology, 2020, 11, 383.	2.2	40
2626	Concepts in Boolean network modeling: What do they all mean?. Computational and Structural Biotechnology Journal, 2020, 18, 571-582.	1.9	128

#	Article	IF	CITATIONS
2627	Progress in integrative systems biology, physiology and medicine: towards a scale-relative biology. European Physical Journal A, 2020, 56, 1.	1.0	11
2628	From bag-of-genes to bag-of-genomes: metabolic modelling of communities in the era of metagenome-assembled genomes. Computational and Structural Biotechnology Journal, 2020, 18, 1722-1734.	1.9	52
2629	Mechanistic Modeling and Multiscale Applications for Precision Medicine: Theory and Practice. Network and Systems Medicine, 2020, 3, 36-56.	2.7	11
2630	Revisiting the use of graph centrality models in biological pathway analysis. BioData Mining, 2020, 13, 5.	2.2	10
2631	The physics of cell fate. , 2020, , 189-206.		5
2632	Enhanced biosensing strategies using electrogenerated chemiluminescence: recent progress and future prospects. Journal of Materials Chemistry B, 2020, 8, 3192-3212.	2.9	23
2633	Digital Transformation of Identity in the Age of Artificial Intelligence. , 2020, , .		21
2634	Embryoâ€derived teratoma inÂvitro biological system reveals antitumor and embryotoxic activity of valproate. FEBS Journal, 2020, 287, 4783-4800.	2.2	4
2635	EcoToxModules: Custom Gene Sets to Organize and Analyze Toxicogenomics Data from Ecological Species. Environmental Science & Ecology, 2020, 54, 4376-4387.	4.6	16
2636	A systems approach to infectious disease. Nature Reviews Genetics, 2020, 21, 339-354.	7.7	72
2637	Core transcriptional regulatory circuits in prion diseases. Molecular Brain, 2020, 13, 10.	1.3	7
2638	Sensitivity analysis methods in the biomedical sciences. Mathematical Biosciences, 2020, 323, 108306.	0.9	91
2639	Efficient Verification of Observability and Reconstructibility for Large Boolean Control Networks With Special Structures. IEEE Transactions on Automatic Control, 2020, 65, 5144-5158.	3.6	47
2640	<p>Molecular Mechanisms of Anticancer Activities of Puerarin</p> . Cancer Management and Research, 2020, Volume 12, 79-90.	0.9	49
2642	Modeling Early Stages of Bone and Joint Infections Dynamics in Humans: A Multi-Agent, Multi-System Based Model. Frontiers in Molecular Biosciences, 2020, 7, 26.	1.6	0
2643	How Computation Is Helping Unravel the Dynamics of Morphogenesis. Frontiers in Physics, 2020, 8, .	1.0	11
2644	Medusa: Software to build and analyze ensembles of genome-scale metabolic network reconstructions. PLoS Computational Biology, 2020, 16, e1007847.	1.5	18
2645	Understanding biochemical design principles with ensembles of canonical non-linear models. PLoS ONE, 2020, 15, e0230599.	1.1	4

#	Article	IF	CITATIONS
2646	Biophysical Techniques for Target Validation and Drug Discovery in Transcription-Targeted Therapy. International Journal of Molecular Sciences, 2020, 21, 2301.	1.8	9
2647	Applications of personalised signalling network models in precision oncology. , 2020, 212, 107555.		14
2648	Applications of cyanobacteria in biomedicine. , 2020, , 441-453.		16
2649	A framework for parsing heritable information. Journal of the Royal Society Interface, 2020, 17, 20200154.	1.5	9
2650	Interactive semi-supervised learning for microarray analysis. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, , 1-1.	1.9	0
2651	Robustness for Stability and Stabilization of Boolean Networks With Stochastic Function Perturbations. IEEE Transactions on Automatic Control, 2021, 66, 1231-1237.	3.6	64
2652	Multiscale Modeling Meets Machine Learning: What Can We Learn?. Archives of Computational Methods in Engineering, 2021, 28, 1017-1037.	6.0	164
2655	CaliPro: A Calibration Protocol That Utilizes Parameter Density Estimation to Explore Parameter Space and Calibrate Complex Biological Models. Cellular and Molecular Bioengineering, 2021, 14, 31-47.	1.0	19
2656	Microbial metabolic noise. WIREs Mechanisms of Disease, 2021, 13, e1512.	1.5	11
2657	Households' flood vulnerability and adaptation: Empirical evidence from mountainous regions of Pakistan. International Journal of Disaster Risk Reduction, 2021, 52, 101967.	1.8	26
2658	Energy disorders caused by mitochondrial dysfunction contribute to $\hat{l}\pm$ -amatoxin-induced liver function damage and liver failure. Toxicology Letters, 2021, 336, 68-79.	0.4	11
2659	Synthesis of the Dynamical Properties of Feedback Loops in Bio-Pathways. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1217-1226.	1.9	0
2660	Hybrid modelling of biological systems using fuzzy continuous Petri nets. Briefings in Bioinformatics, 2021, 22, 438-450.	3.2	12
2662	A transfer learning model with multi-source domains for biomedical event trigger extraction. BMC Genomics, 2021, 22, 31.	1.2	5
2663	Neurochemical Mobile: A Heuristic Tool for Understanding Dynamic Complexity and Treatment of Alcohol Withdrawal., 2021,, 1-23.		0
2664	Machine learning and mechanistic computational modeling of inflammation as tools for designing immunomodulatory biomaterials., 2021,, 251-272.		2
2666	An Ontological Analysis of Cities, Smart Cities and Their Components. Philosophy of Engineering and Technology, 2021, , 365-387.	0.1	4
2667	Network geometry. Nature Reviews Physics, 2021, 3, 114-135.	11.9	93

#	ARTICLE	IF	CITATIONS
2668	Genome-Scale Metabolic Models. , 2021, , 420-428.		1
2669	Network Analysis in Systems Biology. , 2021, , 434-445.		0
2672	The physical frailty syndrome as a transition from homeostatic symphony to cacophony. Nature Aging, 2021, 1, 36-46.	5.3	210
2673	Impact of Geography on Adaptation for the Future Sustainability of Human Society on Earth. Open Journal of Social Sciences, 2021, 09, 188-217.	0.1	1
2674	The Changing Face of Biological Research and the Growing Role of Biosecurity. Advanced Sciences and Technologies for Security Applications, 2021, , 89-119.	0.4	0
2675	Analytical approximation of a self-oscillatory reaction system using the Laplace-Borel transform. Chaos, Solitons and Fractals, 2021, 142, 110508.	2.5	3
2676	Robust Physiological Metrics From Sparsely Sampled Networks. Frontiers in Physiology, 2021, 12, 624097.	1.3	7
2677	An Early Stage Researcher's Primer on Systems Medicine Terminology. Network and Systems Medicine, 2021, 4, 2-50.	2.7	9
2678	Ultrahighâ€Sensitive Compressionâ€Stress Sensor Using Integrated Stimuliâ€Responsive Materials. Advanced Materials, 2021, 33, e2008755.	11.1	47
2681	Optimal Perturbations of Systems with Delayed Independent Variables for Control of Dynamics of Infectious Diseases Based on Multicomponent Actions. Journal of Mathematical Sciences, 2021, 253, 618-641.	0.1	5
2682	Identifying the essential nodes in network pharmacology based on multilayer network combined with random walk algorithm. Journal of Biomedical Informatics, 2021, 114, 103666.	2.5	9
2684	Metabolomics Analysis of the Development of Sepsis and Potential Biomarkers of Sepsis-Induced Acute Kidney Injury. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-22.	1.9	13
2685	A Holistic Approach to Study Photosynthetic Acclimation Responses of Plants to Fluctuating Light. Frontiers in Plant Science, 2021, 12, 668512.	1.7	21
2686	Identifying Opportunities to Promote Systems Thinking in Catalysis Education. Journal of Chemical Education, 2021, 98, 1583-1593.	1.1	4
2687	Application of omics technologies in dermatological research and skin management. Journal of Cosmetic Dermatology, 2022, 21, 451-460.	0.8	10
2688	Sensitive Dual-Mode Biosensors for CYFRA21-1 Assay Based on the Dual-Signaling Electrochemical Ratiometric Strategy and "On–Off–On―PEC Method. Analytical Chemistry, 2021, 93, 6801-6807.	3.2	74
2690	A global search for novel transcription factors impacting the <i>Neurospora crassa</i> circadian clock. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	13
2691	A Network Pharmacology Study to Uncover the Multiple Molecular Mechanism of the Chinese Patent Medicine Toujiequwen Granules in the Treatment of Corona Virus Disease 2019 (COVID-19). Current Medical Science, 2021, 41, 297-305.	0.7	2

#	Article	IF	CITATIONS
2693	Genome-Wide Identification of Candidate Genes for Milk Production Traits in Korean Holstein Cattle. Animals, 2021, 11, 1392.	1.0	12
2694	Towards a Systems Biology Approach to Understanding the Lichen Symbiosis: Opportunities and Challenges of Implementing Network Modelling. Frontiers in Microbiology, 2021, 12, 667864.	1.5	15
2695	Multienzymatic Processes Involving Baeyer–Villiger Monooxygenases. Catalysts, 2021, 11, 605.	1.6	12
2696	Modelâ€based robustness and bistability analysis for methylationâ€based, epigenetic memory systems. FEBS Journal, 2021, 288, 5692-5707.	2.2	4
2697	Advancing crop genomics from lab to field. Nature Genetics, 2021, 53, 595-601.	9.4	47
2698	The life course health development model: a new approach to understanding human health. Zhejiang Da Xue Xue Bao Yi Xue Ban = Journal of Zhejiang University Medical Sciences, 2021, 50, 411-419.	0.1	0
2699	Modeling the roles of 14-3-3 $\ddot{l}f$ and Wip1 in p53 dynamics and programmed cell death*. Communications in Theoretical Physics, 2021, 73, 085602.	1.1	1
2700	The Systems and Synthetic Biology of Auxin. Cold Spring Harbor Perspectives in Biology, 2022, 14, a040071.	2.3	2
2701	A forecast for large-scale, predictive biology: Lessons from meteorology. Cell Systems, 2021, 12, 488-496.	2.9	5
2702	Transcriptional and Microenvironmental Landscape of Macrophage Transition in Cancer: A Boolean Analysis. Frontiers in Immunology, 2021, 12, 642842.	2.2	20
2703	A new pipeline for structural characterization and classification of RNA-Seq microbiome data. BioData Mining, 2021, 14, 31.	2.2	1
2704	Sorghum's Whole-Plant Transcriptome and Proteome Responses to Drought Stress: A Review. Life, 2021, 11, 704.	1.1	13
2705	Challenges and Opportunities in Understanding Genetics of Fungal Diseases: Towards a Functional Genomics Approach. Infection and Immunity, 2021, 89, e0000521.	1.0	3
2706	Systems-level biomarkers identification and drug repositioning in colorectal cancer. World Journal of Gastrointestinal Oncology, 2021, 13, 463-486.	0.8	0
2707	Synthetic Biology: Old and New Dilemmasâ€"The Case of Artificial Life. BioTech, 2021, 10, 16.	1.3	3
2708	The Impact of Small Time Delays on the Onset of Oscillations and Synchrony in Brain Networks. Frontiers in Systems Neuroscience, 2021, 15, 688517.	1.2	5
2709	Measuring Postprandial Metabolic Flexibility To Assess Metabolic Health and Disease. Journal of Nutrition, 2021, 151, 3284-3291.	1.3	9
2710	The Potential of OMICs Technologies for the Treatment of Immune-Mediated Inflammatory Diseases. International Journal of Molecular Sciences, 2021, 22, 7506.	1.8	6

#	Article	IF	CITATIONS
2711	Systems-level biomarkers identification and drug repositioning in colorectal cancer. World Journal of Gastrointestinal Oncology, 2021, 13, 638-661.	0.8	2
2714	Using Antibody Modified Terahertz Metamaterial Biosensor to Detect Concentration of Carcinoembryonic Antigen. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	1.9	51
2715	WinBEST-KIT: Biochemical Reaction Simulator for Analyzing Multi-Layered Metabolic Pathways. Bioengineering, 2021, 8, 114.	1.6	0
2717	A review of systems biology research of anxiety disorders. Revista Brasileira De Psiquiatria, 2021, 43, 414-423.	0.9	9
2718	Are There Biomimetic Lessons from Genetic Regulatory Networks for Developing a Lunar Industrial Ecology?. Biomimetics, 2021, 6, 50.	1.5	3
2719	Dose-Dependent Variation of Synchronous Metabolites and Modules in a Yin/Yang Transformation Model of Appointed Ischemia Metabolic Networks. Frontiers in Neuroscience, 2021, 15, 645185.	1.4	1
2720	Correlation between bacterial community succession and propionic acid during gray sufu fermentation. Food Chemistry, 2021, 353, 129447.	4.2	19
2721	Integrating Mindsets and Toolsets at the Frontier of Systems Biology. Frontiers in Systems Biology, 2021, 1, .	0.5	3
2722	20th International Workshop on Data Mining in Bioinformatics (BIOKDD 2021)., 2021,,.		0
2724	Trends in the Application of "Omics―to Ecotoxicology and Stress Ecology. Genes, 2021, 12, 1481.	1.0	22
2725	Inferring gene regulatory networks from single-cell RNA-seq temporal snapshot data requires higher-order moments. Patterns, 2021, 2, 100332.	3.1	2
2726	Finely Tuned Models Sacrifice Explanatory Depth. Foundations of Physics, 2021, 51, 1.	0.6	2
2728	Dismantling Anti-Ageing Medicine: Why Age-Relatedness of Cardiovascular Disease is Proof of Robustness Rather Than of Ageing-Associated Vulnerability. Heart Lung and Circulation, 2021, 30, 1702-1709.	0.2	4
2728 2729	Robustness Rather Than of Ageing-Associated Vulnerability. Heart Lung and Circulation, 2021, 30,	0.2	4 5
	Robustness Rather Than of Ageing-Associated Vulnerability. Heart Lung and Circulation, 2021, 30, 1702-1709.		
2729	Robustness Rather Than of Ageing-Associated Vulnerability. Heart Lung and Circulation, 2021, 30, 1702-1709. A Petri nets-based framework for whole-cell modeling. BioSystems, 2021, 210, 104533. Incoherent modulation of bi-stable dynamics orchestrates the Mushroom and Isola bifurcations.	0.9	5
2729 2730	Robustness Rather Than of Ageing-Associated Vulnerability. Heart Lung and Circulation, 2021, 30, 1702-1709. A Petri nets-based framework for whole-cell modeling. BioSystems, 2021, 210, 104533. Incoherent modulation of bi-stable dynamics orchestrates the Mushroom and Isola bifurcations. Journal of Theoretical Biology, 2021, 530, 110882.	0.9	3

#	Article	IF	Citations
2734	Protein–Protein Interaction Network for the Identification of New Targets Against Novel Coronavirus. Methods in Pharmacology and Toxicology, 2021, , 213-230.	0.1	5
2735	Metabolic Modeling of Fungi., 2021,, 394-405.		0
2736	A brief overview to systems biology in toxicology: The journey from in to vivo, in-vitro and –omics. Journal of King Saud University - Science, 2021, 33, 101254.	1.6	10
2737	The Systems Biology Graphical Notation: Current Status and Applications in Systems Medicine. , 2021, , 372-381.		6
2738	Integrative Medicine: Not a Carte Blanche for Untested Nonsense. Archives of Internal Medicine, 2002, 162, 1781-1782.	4.3	2
2739	Microfluidic Tissue Model for Live Cell Screening. Biotechnology Progress, 2007, 23, 946-951.	1.3	20
2740	Systems biology of cellular membranes: a convergence with biophysics. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2017, 9, e1386.	6.6	31
2741	Prokaryotic Systems Biology. Cell Engineering, 2007, , 395-423.	0.4	1
2742	Crop Systems Biology., 0,, 63-73.		10
2743	Gene Network: Model, Dynamics and Simulation. Lecture Notes in Computer Science, 2005, , 12-21.	1.0	7
2744	Machine Learning for Systems Biology. Lecture Notes in Computer Science, 2005, , 416-423.	1.0	10
2745	Reaction Motifs in Metabolic Networks. Lecture Notes in Computer Science, 2005, , 178-191.	1.0	7
2746	P System Models for Mechanosensitive Channels. , 2006, , 43-81.		6
2747	Modeling Cellular Behavior with Hybrid Automata: Bisimulation and Collapsing. Lecture Notes in Computer Science, 2003, , 57-74.	1.0	13
2748	Feedback Regulation of the Heat Shock Response in E. coli. , 2003, , 115-128.		11
2749	From Cells to (Silicon) Computers, and Back. , 2008, , 343-371.		6
2750	Computer Science, Informatics, and Natural Computingâ€"Personal Reflections. , 2008, , 373-379.		5
2751	Bioinformatics for Traumatic Brain Injury: Proteomic Data Mining. Springer Optimization and Its Applications, 2007, , 363-387.	0.6	5

#	Article	IF	Citations
2752	Volatile Mammalian Chemosignals: Structural and Quantitative Aspects., 2008, , 13-23.		4
2754	ncovering the Plant Metabolome: Current and Future Challenges. , 2007, , 71-85.		3
2755	Sulfur in plants as part of a metabolic network. Plant Ecophysiology, 2007, , 107-142.	1.5	9
2756	Systems Biology and the Reconstruction of the Cell: From Molecular Components to Integral Function., 2007, 43, 239-262.		2
2757	Systems Biology of the Endoplasmic Reticulum Stress Response. , 2007, 43, 277-298.		8
2758	Discovering Gene–Gene and Gene–Environment Causal Interactions Using Bioinformatics Approaches. , 2010, , 115-138.		2
2759	Why and How to Expand the Role of Systems Biology in Pharmaceutical Research and Development. Advances in Experimental Medicine and Biology, 2012, 736, 533-542.	0.8	2
2760	Systems Biology Meets Metabolism. , 2012, , 281-313.		1
2761	Modeling the Foundations of Plant Organ Growth Regulation., 2017,, 1-33.		1
2762	The Role of Metabolomics in Systems Biology. , 2003, , 171-198.		27
2763	Flux Visualization Using VANTED/FluxMap. Methods in Molecular Biology, 2014, 1191, 225-233.	0.4	2
2764	Cell-Based Computational Modeling of Vascular Morphogenesis Using Tissue Simulation Toolkit. Methods in Molecular Biology, 2015, 1214, 67-127.	0.4	21
2765	Innate Immunity in Disease: Insights from Mathematical Modeling and Analysis. Advances in Experimental Medicine and Biology, 2014, 844, 227-243.	0.8	4
2766	Engineered Cell-Based Therapies: A Vanguard of Design-Driven Medicine. Advances in Experimental Medicine and Biology, 2014, 844, 369-391.	0.8	4
2767	Metabonomics and Systems Biology. Methods in Molecular Biology, 2015, 1277, 245-255.	0.4	8
2768	Constructing Simple Biological Networks for Understanding Complex High-Throughput Data in Plants. Methods in Molecular Biology, 2015, 1284, 503-526.	0.4	6
2769	Quantifying the Biological Impact of Active Substances Using Causal Network Models. Methods in Pharmacology and Toxicology, 2015, , 223-256.	0.1	3
2770	Systems Biology Methods for Alzheimer's Disease Research Toward Molecular Signatures, Subtypes, and Stages and Precision Medicine: Application in Cohort Studies and Trials. Methods in Molecular Biology, 2018, 1750, 31-66.	0.4	36

#	Article	IF	CITATIONS
2771	Challenges and Opportunities in the Chinese Herbal Drug Industry. , 2005, , 229-250.		6
2772	The Integration of Personalized and Systems Medicine. Methods in Molecular Biology, 2008, 448, 1-19.	0.4	21
2773	Microarrays. Methods in Molecular Biology, 2007, , 225-243.	0.4	5
2774	Introduction: A Practical Guide to the Systems Approach in Biology. Methods in Molecular Biology, 2009, 500, 1-11.	0.4	3
2775	Scientific Challenges in Systems Biology. , 2007, , 3-13.		4
2776	Efficiency, Robustness, and Stochasticity of Gene Regulatory Networks in Systems Biology: λ Switch as a Working Example., 2007,, 336-371.		7
2777	CellDesigner: A Graphical Biological Network Editor and Workbench Interfacing Simulator. , 2007, , 422-434.		25
2778	Computational Modeling in Systems Biology. Methods in Molecular Biology, 2010, 662, 97-120.	0.4	11
2779	Systems Biology and Inflammation. Methods in Molecular Biology, 2010, 662, 181-201.	0.4	23
2780	Yeast Systems Biology: The Challenge of Eukaryotic Complexity. Methods in Molecular Biology, 2011, 759, 3-28.	0.4	10
2781	Molecular Network Dynamics of Cell Cycle Control: Transitions to Start and Finish. Methods in Molecular Biology, 2011, 761, 277-291.	0.4	11
2782	Systems Biology in Psychiatric Research: From Complex Data Sets Over Wiring Diagrams to Computer Simulations. Methods in Molecular Biology, 2012, 829, 567-592.	0.4	14
2783	Systems Toxicology from Genes to Organs. Methods in Molecular Biology, 2013, 930, 375-397.	0.4	10
2784	Building Simulation Models of Developing Plant Organs Using VirtualLeaf. Methods in Molecular Biology, 2013, 959, 333-352.	0.4	10
2785	Towards Human Cell Simulation. Lecture Notes in Computer Science, 2019, , 221-249.	1.0	6
2786	Mathematics of Nerve Signals. Mathematics of Planet Earth, 2019, , 207-238.	0.1	2
2787	Singular Perturbation Techniques and Asymptotic Expansions for Some Complex Enzyme Reactions., 2020, , 43-53.		1
2790	Synthetic Biology at the Limits of Science. Risk Engineering, 2015, , 31-58.	0.7	9

#	Article	IF	Citations
2791	MP Modelling for Systems Biology: Two Case Studies. Emergence, Complexity and Computation, 2014, , 223-245.	0.2	5
2792	Cells as Machines: Towards Deciphering Biochemical Programs in the Cell. Lecture Notes in Computer Science, 2014, , 50-67.	1.0	1
2793	Hybrid Modeling for Systems Biology: Theory and Practice. Modeling and Simulation in Science, Engineering and Technology, 2014, , 367-388.	0.4	3
2794	Microalgal Systems Biology for Biofuel Production. , 2015, , 3-21.		2
2795	Crop Systems Biology. , 2016, , .		9
2796	Sloppiness and the Geometry of Parameter Space. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2016, , 271-299.	0.7	18
2797	Structural Simplification of Chemical Reaction Networks Preserving Deterministic Semantics. Lecture Notes in Computer Science, 2015, , 133-144.	1.0	3
2798	\$\$ell \$\$: An Imperative DSL to Stochastically Simulate Biological Systems. Lecture Notes in Computer Science, 2015, , 354-374.	1.0	3
2799	Computational Scientific Discovery. , 2017, , 719-734.		10
2800	Interdisciplinarity, Philosophy and Systems Biology. History, Philosophy and Theory of the Life Sciences, 2017, , 87-97.	0.4	4
2801	Introduction to the Handbook of Life Course Health Development. , 2018, , 1-16.		6
2802	Early in the Life Course: Time for Obesity Prevention. , 2018, , 169-196.		7
2803	From Cells as Computation to Cells as Apps. IFIP Advances in Information and Communication Technology, 2016, , 116-130.	0.5	1
2804	Complementarity of Seeing and Appearing. Intelligent Systems, Control and Automation: Science and Engineering, 2019, , 13-30.	0.3	1
2805	A Membrane System for the Leukocyte Selective Recruitment. Lecture Notes in Computer Science, 2004, , 181-190.	1.0	15
2806	Systems Biology and Nanotechnology. , 2008, , 1411-1433.		1
2807	Comparative Analysis of Gene-Coexpression Networks Across Species., 2007,, 615-626.		1
2808	Evolvable Hardware: A Tool for Reverse Engineering of Biological Systems. Lecture Notes in Computer Science, 2008, , 342-351.	1.0	4

#	Article	IF	CITATIONS
2809	Artificial Life. , 2012, , 1805-1834.		5
2810	Algorithmic Systems Biology — Computer Science Propels Systems Biology. , 2012, , 1835-1862.		3
2811	Reconstructing Gene Networks from Microarray Time-Series Data via Granger Causality. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 196-209.	0.2	4
2813	Mathematical and Statistical Modeling of Acute Inflammation. , 2004, , 457-467.		7
2814	A Methodology Based on MP Theory for Gene Expression Analysis. Lecture Notes in Computer Science, 2012, , 300-313.	1.0	13
2815	Climate Change Adaptation: Institutional Approaches for Developing Countries. Climate Change Management, 2013, , 185-203.	0.6	2
2816	Abstraction of Graph-Based Models of Bio-molecular Reaction Systems for Efficient Simulation. Lecture Notes in Computer Science, 2012, , 187-206.	1.0	3
2817	Digital Artifacts as Institutional Attractors: A Systems Biology Perspective on Change in Organizational Routines. International Federation for Information Processing, 2012, , 195-209.	0.4	3
2818	Self-assembly Models of Variable Resolution. Lecture Notes in Computer Science, 2012, , 181-203.	1.0	7
2819	Complex Systems Biology of Networks: The Riddle and the Challenge. Springer Series in Biophysics, 2014, , 19-35.	0.4	5
2820	Information Retrieval in Life Sciences: A Programmatic Survey. , 2014, , 73-109.		6
2821	1 Yeast as a Model for Systems Biology Studies on Complex Diseases. , 2014, , 3-30.		2
2822	Gene expression profiling in neurological and neuroinflammatory diseases., 2008,, 115-130.		1
2824	Complex Adaptive Systems. SpringerBriefs in Cognitive Computation, 2013, , 21-32.	0.1	7
2825	Innovations of the Rule-Based Modeling Approach. , 2013, , 273-300.		16
2827	Clinical Bioinformatics: A New Emerging Science of Biomarker Development. Translational Bioinformatics, 2014, , 175-191.	0.0	2
2828	Complex Networks and Systems Biology. , 2015, , 129-150.		5
2829	Systems Health: A Transition from Disease Management Toward Health Promotion. Advances in Experimental Medicine and Biology, 2017, 1028, 149-164.	0.8	9

#	Article	IF	CITATIONS
2830	Advancement in Sustainable Agriculture: Computational and Bioinformatics Tools., 2019, , 465-547.		4
2831	Integrating the Bioinformatics and Omics Tools for Systems Analysis of Abiotic Stress Tolerance in Oryza sativa (L.)., 2019,, 59-77.		3
2833	Microfluidic tissue model for live cell screening. Biotechnology Progress, 2007, 23, 946-51.	1.3	11
2834	Parameter estimation and optimal experimental design. Essays in Biochemistry, 2008, 45, 195-210.	2.1	115
2835	Bifurcation analysis of bistable and oscillatory dynamics in biological networks using the rootâ€locus method. IET Systems Biology, 2019, 13, 333-345.	0.8	4
2837	Digital Materiality and the Emergence of an Evolutionary Science of the Artificial. , 2012, , 134-154.		35
2849	Generative network model of transcriptome patterns in disease cohorts with tunable signal strength. Physical Review Research, 2020, 2, .	1.3	3
2850	A Behavior Based Approach to Cellular Self-Organizing Systems Design. , 2011, , .		7
2853	A SYSTEMS BIOLOGY CASE STUDY OF OVARIAN CANCER DRUG RESISTANCE., 2006,,.		13
2854	COMPLEXITY OF MOLECULAR SIGNALING NETWORKS FOR VARIOUS TYPES OF CANCER AND NEUROLOGICAL DISEASES CORRELATES WITH PATIENT SURVIVABILITY. , 2014, , .		1
2855	MAMMOTh: A new database for curated mathematical models of biomolecular systems. Journal of Bioinformatics and Computational Biology, 2018, 16, 1740010.	0.3	10
2856	A parallel and distributed discrete event approach for spatial cell-biological simulations. Performance Evaluation Review, 2008, 35, 22-31.	0.4	14
2858	Gene network analysis: from heart development to cardiac therapy. Thrombosis and Haemostasis, 2015, 113, 521-531.	1.8	7
2859	Computational Modelling in Cancer: Methods and Applications. Biomedical Data Journal, 2015, 01, 15-25.	0.2	5
2860	The Scientific Problems with Using Non-Human Animals to Predict Human Response to Drugs and Disease., 2019,, 391-416.		3
2861	Data-Driven Modelling of Biological Multi-Scale Processes. Journal of Coupled Systems and Multiscale Dynamics, 2015, 3, 101-121.	0.2	37
2862	Understanding through Modeling. , 2006, , 27-82.		5
2864	Treating Nanoparticles with Precaution. , 2010, , 445-472.		5

#	Article	IF	CITATIONS
2865	Systems Biology Application to Decipher Mechanisms and Novel Biomarkers in CNS Trauma. , 2015, , 448-461.		12
2866	Statistical Approach to DNA Chip Analysis. Endocrine Reviews, 2003, 58, 75-93.	7.1	26
2867	Recent advances in biomedical simulations: a manifesto for model engineering. F1000Research, 2019, 8, 261.	0.8	21
2868	A Gateway between Omics Data and Systems Biology. Journal of Metabolomics & Systems Biology, 2013, 01, .	0.0	4
2869	Disease-Aging Network Reveals Significant Roles of Aging Genes in Connecting Genetic Diseases. PLoS Computational Biology, 2009, 5, e1000521.	1.5	74
2870	Conservation in Mammals of Genes Associated with Aggression-Related Behavioral Phenotypes in Honey Bees. PLoS Computational Biology, 2016, 12, e1004921.	1.5	14
2871	Efficient Switches in Biology and Computer Science. PLoS Computational Biology, 2017, 13, e1005100.	1.5	11
2872	LASSIMâ€"A network inference toolbox for genome-wide mechanistic modeling. PLoS Computational Biology, 2017, 13, e1005608.	1.5	6
2873	An evolutionary learning and network approach to identifying key metabolites for osteoarthritis. PLoS Computational Biology, 2018, 14, e1005986.	1.5	30
2874	Systems biology informed deep learning for inferring parameters and hidden dynamics. PLoS Computational Biology, 2020, 16, e1007575.	1.5	133
2875	Development of a hybrid model for a partially known intracellular signaling pathway through correction term estimation and neural network modeling. PLoS Computational Biology, 2020, 16, e1008472.	1.5	57
2876	Conceptual Modeling in Systems Biology Fosters Empirical Findings: The mRNA Lifecycle. PLoS ONE, 2007, 2, e872.	1.1	24
2877	VitisNet: "Omics―Integration through Grapevine Molecular Networks. PLoS ONE, 2009, 4, e8365.	1.1	153
2878	Comparing Transcription Rate and mRNA Abundance as Parameters for Biochemical Pathway and Network Analysis. PLoS ONE, 2010, 5, e9908.	1.1	17
2879	Modeling-Dependent Protein Characterization of the Rice Aldehyde Dehydrogenase (ALDH) Superfamily Reveals Distinct Functional and Structural Features. PLoS ONE, 2010, 5, e11516.	1.1	49
2880	Bridging the Gap: Linking Molecular Simulations and Systemic Descriptions of Cellular Compartments. PLoS ONE, 2010, 5, e14070.	1.1	10
2881	Condition-Dependent Cell Volume and Concentration of Escherichia coli to Facilitate Data Conversion for Systems Biology Modeling. PLoS ONE, 2011, 6, e23126.	1.1	275
2882	Repeated Small Perturbation Approach Reveals Transcriptomic Steady States. PLoS ONE, 2011, 6, e29241.	1.1	7

#	ARTICLE	IF	Citations
2883	Wnt Signalling Pathway Parameters for Mammalian Cells. PLoS ONE, 2012, 7, e31882.	1.1	99
2884	Data Base Management System for Lymphatic Filariasis - A Neglected Tropical Disease. PLoS ONE, 2012, 7, e39970.	1.1	2
2885	Ergodic Sets as Cell Phenotype of Budding Yeast Cell Cycle. PLoS ONE, 2012, 7, e45780.	1.1	32
2886	Modeling of Tumor Progression in NSCLC and Intrinsic Resistance to TKI in Loss of PTEN Expression. PLoS ONE, 2012, 7, e48004.	1.1	42
2887	Suppression Subtractive Hybridization Reveals Transcript Profiling of Chlorella under Heterotrophy to Photoautotrophy Transition. PLoS ONE, 2012, 7, e50414.	1.1	14
2888	Simulated Evolution of Signal Transduction Networks. PLoS ONE, 2012, 7, e50905.	1.1	21
2889	Signalling Network Construction for Modelling Plant Defence Response. PLoS ONE, 2012, 7, e51822.	1.1	19
2890	Feedback-Based, System-Level Properties of Vertebrate-Microbial Interactions. PLoS ONE, 2013, 8, e53984.	1.1	18
2891	Simulation of E. coli Gene Regulation including Overlapping Cell Cycles, Growth, Division, Time Delays and Noise. PLoS ONE, 2013, 8, e62380.	1.1	7
2892	Analysis and Prediction of Pathways in HeLa Cells by Integrating Biological Levels of Organization with Systems-Biology Approaches. PLoS ONE, 2013, 8, e65433.	1.1	8
2893	Characterizing Genes with Distinct Methylation Patterns in the Context of Protein-Protein Interaction Network: Application to Human Brain Tissues. PLoS ONE, 2013, 8, e65871.	1.1	8
2894	An Evaluation of Methods for Inferring Boolean Networks from Time-Series Data. PLoS ONE, 2013, 8, e66031.	1.1	43
2895	Analysis of Serum Inflammatory Mediators Identifies Unique Dynamic Networks Associated with Death and Spontaneous Survival in Pediatric Acute Liver Failure. PLoS ONE, 2013, 8, e78202.	1.1	86
2896	A Model of an Integrated Immune System Pathway in Homo sapiens and Its Interaction with Superantigen Producing Expression Regulatory Pathway in Staphylococcus aureus: Comparing Behavior of Pathogen Perturbed and Unperturbed Pathway. PLoS ONE, 2013, 8, e80918.	1.1	2
2897	Gene Duplication and Phenotypic Changes in the Evolution of Mammalian Metabolic Networks. PLoS ONE, 2014, 9, e87115.	1.1	10
2898	Mapping Network Motif Tunability and Robustness in the Design of Synthetic Signaling Circuits. PLoS ONE, 2014, 9, e91743.	1.1	7
2899	Formal Modelling of Toll like Receptor 4 and JAK/STAT Signalling Pathways: Insight into the Roles of SOCS-1, Interferon- \hat{l}^2 and Proinflammatory Cytokines in Sepsis. PLoS ONE, 2014, 9, e108466.	1.1	29
2900	A MINE Alternative to D-Optimal Designs for the Linear Model. PLoS ONE, 2014, 9, e110234.	1.1	5

#	Article	IF	CITATIONS
2901	Systems Biology Analysis Merging Phenotype, Metabolomic and Genomic Data Identifies Non-SMC Condensin I Complex, Subunit G (NCAPG) and Cellular Maintenance Processes as Major Contributors to Genetic Variability in Bovine Feed Efficiency. PLoS ONE, 2015, 10, e0124574.	1.1	62
2902	Integrating Kinetic Model of E. coli with Genome Scale Metabolic Fluxes Overcomes Its Open System Problem and Reveals Bistability in Central Metabolism. PLoS ONE, 2015, 10, e0139507.	1.1	23
2903	A Novel Method to Verify Multilevel Computational Models of Biological Systems Using Multiscale Spatio-Temporal Meta Model Checking. PLoS ONE, 2016, 11, e0154847.	1.1	9
2904	Statistical Techniques Complement UML When Developing Domain Models of Complex Dynamical Biosystems. PLoS ONE, 2016, 11, e0160834.	1.1	5
2905	BioVis Explorer: A visual guide for biological data visualization techniques. PLoS ONE, 2017, 12, e0187341.	1.1	26
2906	PRECISION MEDICINE - THE GOLDEN GATE FOR DETECTION, TREATMENT AND PREVENTION OF ALZHEIMER'S DISEASE. journal of prevention of Alzheimer's disease, The, 2016, 3, 1-17.	1.5	67
2907	Current standing and future prospects for the technologies proposed to transform toxicity testing in the 21st century. ALTEX: Alternatives To Animal Experimentation, 2011, 28, 17-44.	0.9	79
2908	Food for Thought … Mechanistic Validation. ALTEX: Alternatives To Animal Experimentation, 2013, 30, 119-130.	0.9	66
2910	Metabolomics and Its Potential in Drug Discovery and Development From TCM. World Journal of Traditional Chinese Medicine, 2015, 1, 26-32.	0.9	25
2911	G-language System as a platform for large-scale analysis of high-throughput omics data. Journal of Pesticide Sciences, 2006, 31, 282-288.	0.8	31
2912	Stoichiometric Analysis of Biochemical Systems on Graphs. I. Graphical Rules of Finding of Conservation Relationships. Mathematical Biology and Bioinformatics, 2007, 2, 36-47.	0.1	1
2913	Correlation Analysis between English-Chinese Translation-Based Writing Error Types and Language Gene Polymorphisms for Chinese Graduate Students. International Journal of Learning and Teaching, 2019, , 333-338.	0.1	1
2914	Inference of time-delayed gene regulatory networks based on dynamic Bayesian network hybrid learning method. Oncotarget, 2017, 8, 80373-80392.	0.8	14
2915	A signaling visualization toolkit to support rational design of combination therapies and biomarker discovery: SiViT. Oncotarget, 2017, 8, 29657-29667.	0.8	2
2916	Behavioral robustness and the distributed mechanisms hypothesis: lessons from bio-inspired and theoretical biology. Ciencia Y Tecnolog \tilde{A}_{B} , 2018, 1, 85.	0.1	1
2917	Control of models of virus infections with delayed variables, based on optimal disturbances. Keldysh Institute Preprints, 2017, , 1-28.	0.1	2
2918	Fabrication of a Graphene-Based Electrochemical Immunosensor for Ultrasensitive Analysis of Carcinoembryonic Antigens. International Journal of Electrochemical Science, 2017, 12, 9180-9189.	0.5	2
2919	Application of integrative genomics and systems biology to conventional and in vitro reproductive traits in cattle. Animal Reproduction, 2017, 14, 507-513.	0.4	2

#	Article	IF	CITATIONS
2920	On the way to building an integrated computational environment for the study of developmental patterns and genetic diseases. International Journal of Nanomedicine, 2006, 1, 89-96.	3.3	7
2922	Human Disease and Drug Pharmacology, Complex as Real Life. Current Medicinal Chemistry, 2013, 20, 1623-1634.	1.2	33
2923	Protein Microarrays for Studies of Drug Mechanisms and Biomarker Discovery in the Era of Systems Biology. Current Pharmaceutical Design, 2014, 20, 49-55.	0.9	22
2924	SAnDReS a Computational Tool for Statistical Analysis of Docking Results and Development of Scoring Functions. Combinatorial Chemistry and High Throughput Screening, 2016, 19, 801-812.	0.6	74
2925	A Systems Biology Study of Two Distinct Growth Phases of Saccharomyces cerevisiae Cultures. Current Genomics, 2004, 5, 649-663.	0.7	36
2926	Genome Scale Modeling in Systems Biology: Algorithms and Resources. Current Genomics, 2014, 15, 130-159.	0.7	37
2927	Recent Progress on Systems and Synthetic Biology Approaches to Engineer Fungi As Microbial Cell Factories. Current Genomics, 2016, 17, 85-98.	0.7	9
2928	A Postgenomic Perspective on Molecular Cytogenetics. Current Genomics, 2018, 19, 227-239.	0.7	22
2929	Understanding the Mechanism of Cell Death in Gemcitabine Resistant Pancreatic Ductal Adenocarcinoma: A Systems Biology Approach. Current Genomics, 2020, 20, 483-490.	0.7	3
2930	Engineering Simulations for Cancer Systems Biology. Current Drug Targets, 2012, 13, 1560-1574.	1.0	14
2931	A Review on Modelling Methods, Pathway Simulation Software and Recent Development on Differential Evolution Algorithms for Metabolic Pathways in Systems Biology. Current Bioinformatics, 2014, 9, 509-521.	0.7	6
2932	The Recent Applications and Developments of Bioinformatics and Omics Technologies in Traditional Chinese Medicine. Current Bioinformatics, 2019, 14, 200-210.	0.7	6
2933	Boolean Modeling of Biochemical Networks. Open Bioinformatics Journal, 2011, 5, 16-25.	1.0	28
2934	Neurolipidomics: challenges and developments. Frontiers in Bioscience - Landmark, 2007, 12, 2601.	3.0	95
2935	Molecular imaging as the main part of our decision-making and treatment strategies in stroke. Frontiers in Bioscience - Landmark, 2008, 13, 1535.	3.0	2
2936	The Proteome of a Healthy Human during Physical Activity under Extreme Conditions. Acta Naturae, 2014, 6, 66-75.	1.7	8
2937	Systems dynamics of biology. Journal of Applied Biomedicine, 2005, 3, 1-12.	0.6	11
2938	Metabonomics and its Application Prospect in TCM Study. Chinese Journal of Natural Medicines, 2008, 6, 89-97.	0.7	7

#	Article	IF	CITATIONS
2942	Graph theory and qualitative analysis of reaction networks. Networks and Heterogeneous Media, 2008, 3, 295-322.	0.5	17
2943	Elucidation of Multifaceted Evolutionary Processes of Microorganisms by Comparative Genome-Based Analysis. Journal of Microbiology and Biotechnology, 2009, 19, 1301-5.	0.9	31
2944	Bioinformatics Clouds for High-Throughput Technologies. Advances in Data Mining and Database Management Book Series, 2014, , 489-507.	0.4	2
2945	The Mediating Effect of Organizational Culture, Size, and Structure on the Relationship Between Innovations and Resilience in Selected Nigerian Universities. Advances in Educational Marketing, Administration, and Leadership Book Series, 2016, , 327-364.	0.1	5
2946	Analysis of Microarray Data using Artificial Intelligence Based Techniques. Advances in Bioinformatics and Biomedical Engineering Book Series, 2016, , 216-239.	0.2	10
2947	Agent-Based Modelling in Multicellular Systems Biology. Advances in Computational Intelligence and Robotics Book Series, 2017, , 159-178.	0.4	1
2948	Informatics and Data Analytics to Support Exposome-Based Discovery. Advances in Bioinformatics and Biomedical Engineering Book Series, 2018, , 145-187.	0.2	3
2949	Analysis of Microarray Data Using Artificial Intelligence Based Techniques. , 2019, , 865-888.		2
2950	Ethics and Privacy Considerations for Systems Biology Applications in Predictive and Personalized Medicine., 2011,, 1-27.		2
2951	The Development of Deep Brain Stimulation for Movement Disorders. Journal of Clinical Research & Bioethics, 2012, 03, .	0.2	9
2952	Systems Biology Approaches towards the Prediction of Prospective Novel Plant System-Derived Products or Services. Biological Systems, Open Access, 2013, 02, .	0.1	1
2953	A Discussion of the Role of Complex Evolved Systems in the Development of Invasive Cardiovascular Interventions as Illustrated by the Blalock-Taussig Shunt and Intra-Arterial Stents. Biological Systems, Open Access, 2014, 03, .	0.1	3
2954	Systems Biotechnology: an Energing Trend in Metabolic Engineering of Industrial Microorganisms. Journal of Computer Science and Systems Biology, 2010, 03, .	0.0	5
2955	A Proposed Systemic Modeling Software for Jujube Fruit Cracking. American Journal of Plant Sciences, 2015, 06, 565-573.	0.3	3
2956	The Ethical Implications for Humans in Light of the Poor Predictive Value of Animal Models. International Journal of Clinical Medicine, 2014, 05, 966-1005.	0.1	4
2957	Robust estimation of stochastic gene-network systems. Journal of Biomedical Science and Engineering, 2013, 06, 213-222.	0.2	4
2958	APPLICATION OF THE MP THEORY TO SYSTEMS BIOLOGY., 2012,,.		1
2960	Yeast as a Touchstone in Post-genomic Research: Strategies for Integrative Analysis in Functional Genomics. BMB Reports, 2004, 37, 93-106.	1.1	52

#	Article	IF	CITATIONS
2961	Targeted chiral lipidomics analysis of bioactive eicosanoid lipids in cellular systems. BMB Reports, 2009, 42, 401-410.	1.1	29
2963	Measuring Progress on Climate Change Adaptation: Lessons from the Community Well-Being Analogue. Journal of Integrated Disaster Risk Management, 2015, 5, 115-134.	0.2	3
2964	Identification of Candidate Genes Associated with Beef Marbling Using QTL and Pathway Analysis in Hanwoo (Korean Cattle). Asian-Australasian Journal of Animal Sciences, 2012, 25, 613-620.	2.4	6
2965	Paradigm of Time-sequence Development of the Intestine of Suckling Piglets with Microarray. Asian-Australasian Journal of Animal Sciences, 2012, 25, 1481-1492.	2.4	3
2966	From Discrete to Continuous Gene Regulation Models – A Tutorial Using the Odefy Toolbox. , 0, , .		3
2967	New Insights into Toxicity and Drug Testing. , 2013, , .		6
2968	Multi-Scale Modeling and Analysis of Left Ventricular Remodeling Post Myocardial Infarction: Integration of Experimental and Computational Approaches. , 0, , .		2
2969	Examining and elucidation of human weight cycle model adopting e-cell simulation system. Bioinformation, 2015, 11, 336-342.	0.2	2
2971	Cancer systems immunology. ELife, 2020, 9, .	2.8	14
2972	A novel approach in analyzing agriculture and food systems: Review of modeling and its applications. Korean Journal of Agricultural Science, 2016, 43, 163-175.	0.2	5
2973	A Multifunctional Controller Realized by Biochemical Reactions. SICE Journal of Control Measurement and System Integration, 2015, 8, 99-107.	0.4	6
2974	A Dynamic System Model for Personalized Healthcare Delivery and Managed Individual Health Outcomes. IEEE Access, 2021, 9, 138267-138282.	2.6	6
2976	Al applications in functional genomics. Computational and Structural Biotechnology Journal, 2021, 19, 5762-5790.	1.9	34
2977	Uncovering the Role of Metabolism in Oomycete–Host Interactions Using Genome-Scale Metabolic Models. Frontiers in Microbiology, 2021, 12, 748178.	1.5	3
2978	Recent applications of quantitative systems pharmacology and machine learning models across diseases. Journal of Pharmacokinetics and Pharmacodynamics, 2022, 49, 19-37.	0.8	22
2979	Trends in biological data integration for the selection of enzymes and transcription factors related to cellulose and hemicellulose degradation in fungi. 3 Biotech, 2021, 11, 475.	1.1	3
2980	Omics technologies in personalized combination therapy for cardiovascular diseases: challenges and opportunities. Personalized Medicine, 2021, 18, 595-611.	0.8	3
2981	Assessing Host-Pathogen Interaction Networks via RNA-Seq Profiling: A Systems Biology Approach. , 0, ,		1

#	ARTICLE	IF	Citations
2982	Ultra-Sensitive Elemental Analysis Using Plasmas. For Understanding an Inductively Coupled Plasma Mass Spectrometer Journal of Plasma and Fusion Research, 2002, 78, 634-640.	0.4	0
2985	Title is missing!. Journal of the Robotics Society of Japan, 2004, 22, 847-852.	0.0	0
2986	Challenges in Robust Situation Recognition through Information Fusion for Mission Criticial Multi-agent Systems. Lecture Notes in Computer Science, 2004, , 35-42.	1.0	0
2992	Towards a Dynamic Neuropharmacology: Integrating Network and Receptor Levels. Lecture Notes in Computer Science, 2005, , $1-14$.	1.0	3
2993	Computational Modeling in Glycosylation. , 2005, , 247-288.		1
2994	Biologically Based Pharmacokinetic and Pharmacodynamic Models of the Skin., 2005,, 89-112.		0
2998	Translating SBML Models into the Stochastic π-Calculus for Stochastic Simulation. Lecture Notes in Computer Science, 2006, , 73-88.	1.0	0
2999	Behaviour Under Control: the Malign Misuse of Neuroscience. , 2006, , 91-115.		0
3000	Frailty as a Model of Aging. , 2006, , 697-702.		1
3001	Systems Bilolgy and Control(<special issue="">Learning Life as a System). Journal of the Society of Mechanical Engineers, 2006, 109, 248-252.</special>	0.0	0
3002	Asthma and Atopy. , 2006, , 228-243.		0
3003	Sensitivity analysis of programmed cell death and implications for crosstalk phenomena during Tumor Necrosis Factor stimulation. , 2006, , .		3
3005	Natural Computing: A Natural and Timely Trend for Natural Sciences and Science of Computation. Lecture Notes in Computer Science, 2007, , 670-671.	1.0	1
3006	Cloning and Partial Sequencing of phac1 and phac2 Genes Encoding Poly (3-hydroxyalkanoate) Synthases from Pseudomonas aeroginusa PTCC 1310. Biotechnology, 2007, 6, 497-504.	0.5	0
3007	Genetic networks: between theory and experimentation. World Scientific Lecture Notes in Complex Systems, 2007, , 215-236.	0.1	0
3008	The Role of Water at Multiple Scales in Bio transport (Japanese Translation) and The Present Matters Related to Biotransport. Journal of the Society of Mechanical Engineers, 2008, 111, 601-603.	0.0	0
3009	Maximal-Robustness-Minimal-Fragility Controller: A Compromise between Robustness and Fragility of Biochemical Networks. Lecture Notes in Computer Science, 2008, , 1012-1021.	1.0	0
3010	The Amine System Project: Systems Biology in Practice. Studies in Computational Intelligence, 2008, , 277-292.	0.7	0

#	Article	IF	Citations
3012	CMAP and FCMAP Comparisons Using Monte-Carlo Simulations. , 2008, , .		0
3013	Performance evaluation comes to life. Performance Evaluation Review, 2008, 35, 3-13.	0.4	0
3015	A Novel Method for Detection of Glycoproteins on Sodium Dodecyl Sulphate Polyacrylamide Gel Using Radio-lodinated Tyrosine. International Journal of Biological Chemistry, 2008, 3, 18-24.	0.3	0
3016	Curating a Large-Scale Regulatory Network by Evaluating Its Consistency with Expression Datasets. Lecture Notes in Computer Science, 2009, , 144-155.	1.0	1
3017	An Integration and Analysis Pipeline for Systems Biology in Crop Plant Metabolism. Lecture Notes in Computer Science, 2009, , 196-203.	1.0	0
3018	Automation and Control in Biomedical Systems. , 2009, , 1361-1378.		0
3019	Discrete Modeling of Biochemical Signaling with Memory Enhancement. Lecture Notes in Computer Science, 2009, , 200-215.	1.0	3
3020	Engineering Self-modeling Systems: Application to Biology. Lecture Notes in Computer Science, 2009, , 248-263.	1.0	8
3021	Biomolecular Computing Devices in Synthetic Biology. International Journal of Nanotechnology and Molecular Computation, 2010, 2, 47-64.	0.3	0
3023	A Software Tool for the Simulation and Optimization of Dynamic Metabolic Models. Lecture Notes in Computer Science, 2009, , 1071-1078.	1.0	0
3024	Synthetic Biology as a Proof of Systems Biology. , 2009, , 97-115.		2
3025	Systems Biology of Mammalian Circadian Clocks. , 2009, , 57-69.		0
3026	Substructure Analysis of Metabolic Pathways by Graph-Based Relational Learning. Studies in Computational Intelligence, 2009, , 237-261.	0.7	0
3027	From Techno-Scientific Grammar to Organizational Syntax: New Production Insights on the Nature of the Firm. SSRN Electronic Journal, 0, , .	0.4	0
3029	Emerging Mechanisms of Vein Graft Failure: The Dynamic Interaction of Hemodynamics and the Vascular Response to Injury., 2010,, 209-219.		0
3030	Computational Scale Linking in Biological Protein Materials. , 2010, , 491-531.		0
3031	Multiscale Modeling of Biological Protein Materials $\hat{a}\in$ "Deformation and Failure. Challenges and Advances in Computational Chemistry and Physics, 2010, , 473-533.	0.6	0
3034	The Evolving Transcriptome of Head and Neck Squamous Cell Carcinoma. Systems Biology, 2010, , 687-702.	0.1	0

#	Article	IF	CITATIONS
3035	The Data-Based Mathematical Modeling and Parameter Identification in JAK-STAT Signaling Pathway by Using a Hybrid Evolutionary Algorithm. Lecture Notes in Computer Science, 2010, , 516-522.	1.0	0
3036	A Data-Mining Method for Detection of Complex Nonlinear Relations Applied to a Model of Apoptosis in Cell Populations. Lecture Notes in Computer Science, 2010, , 687-695.	1.0	0
3037	Biotechnology of Riboflavin Production. , 2010, , 21-39.		0
3038	A Bayes Regularized Ordinary Differential Equation Model for the Inference of Gene Regulatory Networks. , 2010, , 139-168.		0
3039	Genome-Scale Constraint-Based Models to Navigate the Microbial Landscape. , 2010, , 4329-4338.		0
3040	Protein-protein interaction map is a key gateway into liver regeneration. World Journal of Gastroenterology, 2010, 16, 3491.	1.4	2
3041	Preclinical Imaging. , 2010, , 379-413.		0
3042	Fundamentals of Model Scaling in Forest Ecology. Ecological Studies, 2010, , 381-395.	0.4	0
3043	Estimation of Protein Networks Based on Least Squares Methods and Robustness Analysis. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 723-729.	0.1	1
3044	10.1007/s11183-008-2001-4. , 2010, 55, 149.		0
3045	BlenX-based compositional modeling of complex reaction mechanisms. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 19, 85-102.	0.8	0
3046	A Taxonomy of Causality-Based Biological Properties. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 19, 116-133.	0.8	0
3047	Tracking the Careers of Grape and Wine Polymers Using Biotechnology and Systems Biology. , 2010, , 389-406.		0
3048	Metabolomics Approach in Soybean. , 2010, , 313-330.		0
3049	Stochastic Game Theory Approach to Robust Synthetic Gene Network Design. , 0, , .		0
3050	Inference of Protein Function from the Structure of Interaction Networks., 2011,, 439-461.		2
3051	Uncovering Atherosclerotic Risk Disease Gene Based on Expression and Network Topological Structure*. Progress in Biochemistry and Biophysics, 2010, 37, 916-922.	0.3	0
3052	Rewriting in Practice. Lecture Notes in Computer Science, 2011, , 6-8.	1.0	0

#	Article	IF	Citations
3053	The Hallmarks of Cancer Revisited Through Systems Biology and Network Modelling. , 2011, , 245-266.		2
3054	AGENT-BASED SIMULATION OF MOLECULAR PROCESSES - An Application to Actin-polymerisation. , 2011, , .		0
3055	The Role of Molecular Imaging in Personalized Medicine. , 2011, , 893-909.		0
3058	Topological Structure of a Boolean Network. Communications and Control Engineering, 2011, , 103-140.	1.0	o
3059	A New Approach to Estimation of Protein Networks for Cell Cycle Based on Least-Squares Method. Lecture Notes in Electrical Engineering, 2011, , 321-331.	0.3	0
3060	Network-Driven Analysis Methods and their Application to Drug Discovery. , 2011, , 294-315.		0
3061	Multiple bifurcations and spatiotemporal patterns for a coupled two-cell Brusselator model. Dynamics of Partial Differential Equations, 2011, 8, 636-384.	1.0	4
3062	Artificial Chemistry and Molecular Network. Studies in Computational Intelligence, 2011, , 87-161.	0.7	o
3063	Topological Robustness of Biological Systems for Information Networks—Modularity. , 2011, , 391-407.		0
3064	Systems Biology—An Overview. , 2011, , 11-25.		0
3065	Das Informationssystem MetaCrop zur Unterst \tilde{A}^{1} /4tzung systembiologischer Forschung an Kulturpflanzen. IT - Information Technology, 2011, 53, 234-240.	0.6	0
3068	New Science Building and Research: From Systems Biology to Theoretical Informatics. TripleC, 2011, 9, 404-413.	0.6	0
3069	Translational Oncogenomics and Human Cancer Interactomics: Advanced Techniques and Complex System Dynamic Approaches. , 0, , .		3
3070	Global Parameter Identification of Stochastic Reaction Networks from Single Trajectories. Advances in Experimental Medicine and Biology, 2012, 736, 477-498.	0.8	2
3071	Novel Machine Learning Techniques for Micro-Array Data Classification., 0,,.		0
3072	Espace et temps dans les sciences du vivantÂ: nouvelles perspectives pour la recherche en didactique. Recherches En Didactiques Des Sciences Et Des Technologies, 2011, , 139-160.	0.1	2
3073	Composability: Perspectives in Ecological Modeling. Lecture Notes in Computer Science, 2012, , 136-148.	1.0	0
3074	MULTI-LEVEL DYNAMIC MODELING IN BIOLOGICAL SYSTEMS - Application of Hybrid Petri Nets to Network Simulation. , 2012, , .		1

#	Article	IF	CITATIONS
3075	Clinical Trials in Cancer and Pharmacogenomics: A Critical Evaluation. Journal of Clinical Trials, 2012, 02, .	0.1	1
3077	A General Procedure for Accurate Parameter Estimation in Dynamic Systems Using New Estimation Errors. Lecture Notes in Computer Science, 2012, , 149-166.	1.0	0
3078	A Beginner's Guide to Systems Simulation in Immunology. Lecture Notes in Computer Science, 2012, , 57-71.	1.0	1
3079	Understanding Cell Fate Decisions by Identifying Crucial System Dynamics. SIMAI Springer Series, 2012, , 83-104.	0.4	0
3082	Application of Bioinformatics Tools in Gel-Based Proteomics. , 0, , .		0
3086	Drug Discovery. , 2013, , 179-192.		0
3087	EXPLAINING TOMATO FRUIT GROWTH BY A MULTI-SCALE MODEL ON REGULATION OF CELL DIVISION, CELL GROWTH AND CARBOHYDRATE DYNAMICS. Acta Horticulturae, 2012, , 167-172.	0.1	0
3089	Systems Biology Study of Yeast Mitogen Activated Protein Kinase (MAPK) Cascade for Novel Drug Target Identification against Fungal Pathogens. International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB), 2013, , 149-153.	0.2	0
3090	Systems Biology Applications in Drug Discovery. , 2013, , 2054-2057.		0
3091	Systems Biology Resources. , 2013, , 2068-2072.		0
3092	Statistical Approaches to Combine Genetic Association Data. Journal of Biometrics & Biostatistics, 2013, 04, 1000166.	4.0	2
3093	Systems Biology Approaches Towards the Prediction of Prospective Novel Plant System-Derived Products or Services. Journal of Computer Science and Systems Biology, 2013, 06, .	0.0	0
3094	Bio-Logics: Logical Analysis of Bioregulatory Networks. Lecture Notes in Computer Science, 2013, , 19-34.	1.0	2
3095	In Silico Trials and Personalized Therapy for Sepsis and Trauma. , 2013, , 159-170.		0
3096	Improving Influenza Vaccination Ratesâ€" A Straightforward Task or a Multifaceted Challenge?. World Journal of Vaccines, 2013, 03, 60-67.	0.8	0
3097	Towards Co-evolution of Information, Life and Artificial Life. Proceedings in Information and Communications Technology, 2013, , 39-48.	0.2	0
3098	An Approach for Biological Data Integration and Knowledge Retrieval based on Ontology, Semantic Web Services Composition, and Al Planning. Advances in Knowledge Acquisition, Transfer and Management Book Series, 2013, , 324-342.	0.1	0
3099	Systems Virology. , 2013, , 2108-2110.		0

#	Article	IF	Citations
3100	Biotechnology, Synthetic Biology, and ICT Define the Emerging Knowledge-Based Bio-Economy. Communications in Computer and Information Science, 2013, , 1-19.	0.4	1
3101	Development of Cell Systems Simulator Using Biochemical Data. Journal of Computer Chemistry Japan, 2013, 12, 204-214.	0.0	0
3103	Setting up a Meta-Threading Pipeline for High-Throughput Structural Bioinformatics: eThread Software Distribution, Walkthrough and Resource Profiling. Journal of Computer Science and Systems Biology, 2013, 06, .	0.0	3
3105	A modern phylogenetic theory of pathology, pathogenesis of essential arterial hypertension and universal algorhythm of damage to the target organs. Systemic Hypertension, 2013, 10, 75-82.	0.1	0
3107	From Physiology, Genomes, Systems, and Self-Organization to Systems Biology: The Historical Roots of a Twenty-First Century Approach to Complexity. Springer Series in Biophysics, 2014, , 3-17.	0.4	2
3108	Inferring Genetic Networks with a Recurrent Neural Network Model Using Differential Evolution. , 2014, , 355-373.		0
3110	Structural Analysis of Biological Networks. , 2014, , 47-71.		3
3111	The Concept of Biological Autonomy. History, Philosophy and Theory of the Life Sciences, 2014, , 19-40.	0.4	3
3112	Predictive Modeling of Signaling Transduction Mediated by Tyrosine-Kinase Receptors. Advances in Intelligent Systems and Computing, 2014, , 1-6.	0.5	0
3113	Transcriptomic Approaches in In Vitro Developmental Toxicity Testing. , 2014, , 143-157.		0
3114	Molecular Networks – Representation and Analysis. , 2014, , 399-418.		0
3115	Intelligent Integrative Knowledge Bases: Bridging Genomics, Integrative Biology and Translational Medicine. Lecture Notes in Computer Science, 2014, , 255-270.	1.0	0
3116	On the Implementation of Quantitative Model Refinement. Lecture Notes in Computer Science, 2014, , 95-106.	1.0	2
3117	Systems Vaccinology: Using Functional Signatures To Design Successful Vaccines., 0,, 547-557.		1
3118	Applications of System Theories. , 2015, , 221-247.		1
3119	Systems Approaches to Study Infectious Diseases. , 2015, , 151-172.		0
3120	The Ontic Account of Explanatory Reduction. History, Philosophy and Theory of the Life Sciences, 2015, , 173-246.	0.4	0
3121	Computational Systems Biology Perspective on Tuberculosis in Big Data Era. Advances in Bioinformatics and Biomedical Engineering Book Series, 2015, , 240-264.	0.2	1

#	Article	IF	CITATIONS
3122	Seasonal Allergic Rhinitis and Systems Biology-Oriented Biomarker Discovery. Biomarkers in Disease, 2015, , 1251-1275.	0.0	0
3124	Meta-philosophical Preliminaries. History, Philosophy and Theory of the Life Sciences, 2015, , 5-41.	0.4	O
3125	Mechanistic Modeling of Critical Illness Using Equations. , 2015, , 99-110.		0
3126	Bioinformatics Clouds for High-Throughput Technologies. , 2015, , 1294-1311.		0
3127	Systems Biology. , 2015, , 2458-2460.		0
3128	Systems Biology in Fungi. , 2015, , 90-113.		0
3129	On modeling approaches for the predictive simulation of living systms dymamics. Revista Ontare, 2015, 1, 101-124.	0.0	0
3131	Implementing Biological Network Analysis System through Oriental Medical Literature Analysis. The Journal of the Korea Contents Association, 2015, 15, 616-625.	0.0	O
3132	Study on the Anti-hypertension mechanism of Prunella Vulgaris based on entity grammar systems. Tang [humanitas Medicine], 2015, 5, 27.1-27.6.	0.2	0
3133	Neue Entwicklungen und angrenzende Themenfelder. , 2016, , 289-402.		O
3134	Associated Prevention Concepts and Models. , 2016, , 351-378.		0
3135	Dynamical studies of cellular signaling networks in cancers. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 178704.	0.2	4
3136	A Beginners Guide to Systems Simulation in Immunology. SSRN Electronic Journal, 0, , .	0.4	0
3137	Design, Principles, Network Architecture and Their Analysis Strategies as Applied to Biological Systems. , 2016, , 21-31.		0
3138	A Stability Analysis Method for Biochemical Reaction System with Inhibitory Feedback Loop. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 617-624.	0.1	0
3141	An Effective Numerical Calculation Method for Multi-Time-Scale Mathematical Models in Systems Biology. Applied Mathematics, 2016, 07, 2241-2268.	0.1	0
3142	Biological and Medical Big Data Mining. , 2016, , 246-262.		0
3143	ON REVERSE ENGINEERING OF HUMAN BODY SYSTEM. , 2016, , .		1

#	Article	IF	CITATIONS
3146	Semantic Mining based on graph theory and ontologies. Case Study: Cell Signaling Pathways. CLEI Electronic Journal, $0, \dots$	0.2	2
3148	Open Systems Science: A Challenge to Open Systems Problems. Springer Proceedings in Complexity, 2017, , 213-221.	0.2	1
3149	Applications of System Theories. , 2017, , 269-299.		1
3151	Continuous or Discrete. Journal of Generalized Lie Theory and Applications, 2017, 11, .	0.1	0
3152	An Overview of Biological Data Mining. Advances in Library and Information Science, 2017, , 130-154.	0.2	0
3153	External Evaluation of Event Extraction Classifiers for Automatic Pathway Curation: An extended study of the mTOR pathway. , 2017, , .		1
3155	Basic and practical aspects of pregnancy establishment in cattle. Animal Reproduction, 2017, 14, 581-588.	0.4	4
3156	Pattern formation of a coupled two-cell Schnakenberg model. Discrete and Continuous Dynamical Systems - Series S, 2017, 10, 1051-1062.	0.6	0
3157	"Big Data and Dynamicsâ€â€"The Mathematical Toolkit Towards Personalized Medicine. Springer Proceedings in Mathematics and Statistics, 2017, , 338-369.	0.1	0
3161	Current Status of Systems Biology in Traditional Chinese medicine - in regards to influences to Korean Medicine. Society of Preventive Korean Medicine, 2017, 21, 1-13.	0.2	0
3162	Introduction to Holism. SpringerBriefs in Well-being and Quality of Life Research, 2018, , 1-14.	0.1	0
3164	Acreditaci \tilde{A}^3 n en Red: un sistema de acreditaci \tilde{A}^3 n distribuida para la educaci \tilde{A}^3 n continua. Innoeduca, 2017, 3, 146.	0.5	1
3168	Changes of the Knowledge System and Their Implication for the Formative Stage of Scholars: Experiences in the Natural Sciences. Logic, Argumentation & Reasoning, 2018, , 43-52.	0.1	0
3171	Predicting the Role of Osteal Macrophages and Osteocytes in Bone Tissue Network Using a Mathematical Modeling. Journal of Dental Hygiene Science, 2018, 18, 130-135.	0.1	0
3172	Simulation of Electric Power Plant Performance Using Excel \hat{A}^{\otimes} -VBA. International Journal of Information Engineering and Electronic Business, 2018, 10, 8-14.	1.0	1
3173	DISBi: A Flexible Framework for Integrating Systems Biology Data. Lecture Notes in Computer Science, 2019, , 97-102.	1.0	0
3174	Towards Integration of the Systems Medicine and Medical Al. Yamaguchi Medical Journal, 2018, 67, 187-192.	0.1	0
3175	Causal Queries from Observational Data in Biological Systems via Bayesian Networks: An Empirical Study in Small Networks. Methods in Molecular Biology, 2019, 1883, 111-142.	0.4	4

#	Article	IF	Citations
3176	Annotation of Biological Network of Fungus Saccharomyces cerevisiae Using Cytoscape in Systems Biology., 2019,, 111-129.		0
3177	Microbial Production of Nutraceuticals: Challenges and Prospects. , 2019, , 203-208.		1
3178	Trying to Reveal the Mysteries of Stem Cells Using "Omics―Strategies. Pancreatic Islet Biology, 2019, , 1-50.	0.1	4
3179	Molecular Logic: Brief Introduction and Some Philosophical Considerations. Lecture Notes in Computer Science, 2019, , 1-17.	1.0	0
3180	Volume II: The Simplicity of Complexity. The Frontiers Collection, 2019, , 181-214.	0.1	0
3181	Informatics and Data Analytics to Support Exposome-Based Discovery., 2019, , 744-787.		0
3182	Construction and Analysis of Protein-Protein Interaction Network. Advances in Medical Technologies and Clinical Practice Book Series, 2019, , 204-220.	0.3	2
3183	Nature and Consequences of Biological Reductionism for the Immunological Study of Infectious Diseases. , 2019, , 131-140.		0
3184	The Rational Design of Biological Complexity: A Deceptive Metaphor. , 2019, , 87-102.		0
3185	Inference of General Mass Action-Based State Equations for Oscillatory Biochemical Reaction Systems Using <i>k</i> -Step Genetic Programming. Applied Mathematics, 2019, 10, 627-645.	0.1	1
3186	Computational Systems Biology Perspective on Tuberculosis in Big Data Era., 2019,, 2230-2254.		0
3187	Systems and Synthetic Biology Approach to Understand the Importance of Host-Pathogen Interaction. , 2019, , 433-446.		0
3188	Basic Research in HIV Vaccinology Is Hampered by Reductionist Thinking. , 2019, , 103-126.		0
3189	Study on the formation of chemical wave patterns for the Belousov–Zhabotinsky reaction system. Computer Aided Chemical Engineering, 2019, 46, 853-858.	0.3	0
3190	Reductionism and Complexity in Molecular Biology: Scientists Now Have the Tools to Unravel Biological Complexity and Overcome the Limitations of Reductionism., 2019,, 71-78.		0
3191	An Overview of Biological Data Mining., 2019, , 120-139.		0
3196	On the Emergence of Interdisciplinary Culture: The York Centre for Complex Systems Analysis (YCCSA) and the TRANSIT Project. Emergence, Complexity and Computation, 2020, , 363-395.	0.2	0
3197	Drawing Upon Medicine to Teach Complex Systems to Business School Students: 1. Networks. , 2020, , 177-188.		0

#	Article	IF	CITATIONS
3198	Venenos animales, fuente para el desarrollo de agentes terapéuticos. Inventio, 2019, 15, 43-52.	0.0	O
3199	Synthetic Biology: Perspectives on Risk Analysis, Governance, Communication, and ELSI. Risk, Systems and Decisions, 2020, , 1-18.	0.5	1
3200	Sensitivity Analysis of the Electrocardiogram in Mouse Heart. IFAC-PapersOnLine, 2020, 53, 16087-16091.	0.5	0
3202	Using automated reasoning to explore the metabolism of unconventional organisms: a first step to explore host–microbial interactions. Biochemical Society Transactions, 2020, 48, 901-913.	1.6	3
3205	Complex Network Analysis in Microbial Systems: Theory and Examples. Methods in Molecular Biology, 2022, 2349, 167-191.	0.4	1
3206	Application of Petri Net Theory for Modelling and Validation of Menthol Biosynthesis. Asian Journal of Organic & Medicinal Chemistry, 2021, 5, 312-318.	0.1	0
3207	Agent-Based Modelling in Multicellular Systems Biology. , 2020, , 369-389.		0
3208	Treating Nanoparticles with Precaution: Recognising Qualitative Uncertainty in Scientific Risk Assessment., 2019,, 445-472.		1
3211	Integrated Translation Framework for Endocrine Disruptors in the area of Computational Toxicology. Issues in Toxicology, 2020, , 80-120.	0.2	1
3212	Random attractors of the stochastic extended Brusselator system with a multiplicative noise. AIMS Mathematics, 2020, 5, 3584-3611.	0.7	1
3213	Tissue Engineering and Regenerative Medicines: An Interdisciplinary Understanding., 2020,, 409-438.		2
3214	Systems Biology Approaches in Autophagy Research. Advances in Experimental Medicine and Biology, 2020, 1207, 699-706.	0.8	1
3215	Applications of Advanced Omics Technology for Harnessing the High Altitude Agriculture Production. Rhizosphere Biology, 2020, , 447-463.	0.4	1
3217	Investigating Identity. , 2020, , 25-38.		0
3219	Biocomputers: Problems They Solve, State of the Art, and Prospects. Nanotechnologies in Russia, 2020, 15, 3-12.	0.7	2
3221	Bayesian Network Marker Selection via the Thresholded Graph Laplacian Gaussian Prior. Bayesian Analysis, 2020, 15, 79-102.	1.6	7
3223	A Negative Feedback Loop and Transcription Factor Cooperation Regulate Zonal Gene Induction by 2, 3, 7, 8â€Tetrachlorodibenzoâ€pâ€Dioxin in the Mouse Liver. Hepatology Communications, 2022, 6, 750-764.	2.0	8
3224	<scp>ParaCopasi /scp>: A package for parallel biochemical simulation and analysis. Journal of Computational Chemistry, 2022, 43, 144-154.</scp>	1.5	1

#	Article	IF	CITATIONS
3225	Ethics and Privacy Considerations for Systems Biology Applications in Predictive and Personalized Medicine., 0,, 1378-1404.		1
3226	An Approach for Biological Data Integration and Knowledge Retrieval Based on Ontology, Semantic Web Services Composition, and Al Planning. , 0, , 1727-1744.		0
3227	The Mediating Effect of Organizational Culture, Size, and Structure on the Relationship between Innovations and Resilience in Selected Nigerian Universities., 0,, 993-1033.		0
3228	The Present and the Future Perspectives of Biological Network Inference. Advances in Bioinformatics and Biomedical Engineering Book Series, 0, , 118-140.	0.2	1
3229	Can ecology help genomics: the genome as ecosystem?., 2005,, 205-209.		7
3232	Electronic Cell Environments: Combining Gene, Protein, and Metabolic Networks. , 2006, , 265-280.		O
3235	Control Engineering and Systems Biology. , 2007, , 267-288.		2
3237	The Green Plant as an Intelligent Organism. , 2006, , 1-18.		5
3238	Power-Law Signatures and Patchiness in Genechip Oligonucleotide Microarrays. Studies in Computational Intelligence, 2008, , 359-377.	0.7	0
3239	Sparse Gene Regulatory Network Identification. , 0, , 171-182.		2
3241	Expressive Models for Synaptic Plasticity. Lecture Notes in Computer Science, 2007, , 152-167.	1.0	1
3242	Al in the 21st Century – With Historical Reflections. , 2007, , 1-8.		4
3243	Enhancing Parameter Estimation of Biochemical Networks by Exponentially Scaled Search Steps. , 2008, , 177-187.		3
3244	Quantitative Biological Models as Dynamic, User-Generated Online Content. IFMBE Proceedings, 2009, , 287-290.	0.2	0
3248	NeTFactor, a framework for identifying transcriptional regulators of gene expression-based biomarkers. , 2020, , .		1
3251	Fungal genomes enhance our understanding of the pathogens affecting trees cultivated in Southern Hemisphere plantations. Southern Forests, 2020, 82, 215-232.	0.2	3
3253	The Green Plant as an Intelligent Organism. , 2006, , 1-18.		1
3254	A computer-based microarray experiment design-system for gene-regulation pathway discovery. AMIA Annual Symposium proceedings, 2003, , 733-7.	0.2	2

#	Article	IF	Citations
3256	Cancer as a system failure. Cancer Informatics, 2007, 5, 10-8.	0.9	1
3257	Advancing cancer systems biology: introducing the Center for the Development of a Virtual Tumor, CViT. Cancer Informatics, 2007, 5, 1-8.	0.9	17
3258	On the adaptive design rules of biochemical networks in evolution. Evolutionary Bioinformatics, 2007, 3, 27-39.	0.6	5
3259	Underlying principles of natural selection in network evolution: systems biology approach. Evolutionary Bioinformatics, 2007, 3, 245-62.	0.6	8
3264	Systems biology: new institute and applications. Yale Journal of Biology and Medicine, 2011, 84, 59-61.	0.2	0
3267	A Gateway between Omics Data and Systems Biology. , 2013, 1, 1.		3
3268	The Proteome of a Healthy Human during Physical Activity under Extreme Conditions. Acta Naturae, 2014, 6, 66-75.	1.7	4
3270	Genetics and genomic approaches to improve grape quality for winemaking., 2010,, 395-442.		0
3271	Systems biology and big data analytics. , 2022, , 425-442.		0
3272	Pathway modeling and simulation analysis. , 2022, , 409-423.		2
3273	Metabolic responses to air-exposure stress of the Chinese mitten crab (Eriocheir sinensis) revealed by a combined analysis of metabolome and transcriptome. Aquaculture, 2022, 548, 737710.	1.7	8
3274	Modeling Plant Tissue Development Using VirtualLeaf. Methods in Molecular Biology, 2022, 2395, 165-198.	0.4	3
3276	Towards organism-level systems biology by next-generation genetics and whole-organ cell profiling. Biophysical Reviews, 2021, 13, 1113-1126.	1.5	1
3277	A Label-Free Proteomic and Complementary Metabolomic Analysis of Leaves of the Resurrection Plant Xerophyta schlechteri during Dehydration. Life, 2021, 11, 1242.	1.1	3
3278	Pursuit of precision medicine: Systems biology approaches in Alzheimer's disease mouse models. Neurobiology of Disease, 2021, 161, 105558.	2.1	10
3279	Specialty Grand Challenge: Data and Model Integration in Systems Biology. Frontiers in Systems Biology, 2021, 1, .	0.5	1
3280	A Systems Biology Approach for Detecting Active Molecular Subpathways Related to Alzheimer's Disease. , 2021, , 1-19.		0
3282	Systems Biology Resources and Their Applications to Understand the Cancer. , 2021, , 1-35.		0

#	Article	IF	CITATIONS
3283	The Danaid Theory of Aging. Frontiers in Cell and Developmental Biology, 2021, 9, 671208.	1.8	8
3284	Metabolic Profiling Analysis of Liver in Landes Geese During the Formation of Fatty Liver via GC-TOF/MS. Frontiers in Physiology, 2021, 12, 783498.	1.3	4
3285	Systems Biology Feedback (of the Collaborative Kind). Computer, 2019, , 1-1.	1.2	0
3286	RCGAToolbox: A Real-coded Genetic Algorithm Software for Parameter Estimation of Kinetic Models. IPSJ Transactions on Bioinformatics, 2021, 14, 30-35.	0.2	2
3287	Research on Construction Method of Protein-Protein Interaction Network Cluster Based on Hadoop., 2021,,.		0
3288	Development and quantitative analysis of a biosensor based on the Arabidopsis SWEET1 sugar transporter. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	11
3289	Finite-Time Set Reachability of Probabilistic Boolean Multiplex Control Networks. Applied Sciences (Switzerland), 2022, 12, 883.	1.3	2
3290	Identification of Biomarker in Brain-specific Gene Regulatory Network Using Structural Controllability Analysis. Frontiers in Bioinformatics, 2022, 2, .	1.0	O
3291	Practical Guidelines for Diagnosing and Treating Thyroid Disease Based on the WOMED Metabolic Model of Disease Focusing on Glycolysis and Coenzyme Q10 Deficiency—A Clinical Alternative to the 2021 Retired Clinical Practice Guidelines of the Endocrine Society. Diagnostics, 2022, 12, 107.	1.3	0
3292	The Effect of Recombinant Protein Production in Lactococcus lactis Transcriptome and Proteome. Microorganisms, 2022, 10, 267.	1.6	1
3294	Experimental determination of Escherichia coli biomass composition for constraint-based metabolic modeling. PLoS ONE, 2022, 17, e0262450.	1.1	8
3295	SMGen: A Generator of Synthetic Models of Biochemical Reaction Networks. Symmetry, 2022, 14, 119.	1.1	6
3296	Systems Biology Resources and Their Applications to Understand the Cancer., 2022, , 2349-2383.		0
3298	High-throughput Genetically Modified Animal Experiments Achieved by Next-generation Mammalian Genetics. Journal of Biological Rhythms, 2022, , 074873042210750.	1.4	1
3299	Biology of PESTâ€Containing Nuclear Protein: A Potential Molecular Target for Cancer Research. Frontiers in Oncology, 2022, 12, 784597.	1.3	2
3300	Scar formation from the perspective of complexity science: a new look at the biological system as a whole. Journal of Wound Care, 2022, 31, 178-184.	0.5	4
3301	Resolving Anomalies in the Behaviour of a Modularity-Inducing Problem Domain with Distributional Fitness Evaluation. Artificial Life, 2022, , 1-24.	1.0	0
3302	CAN WE MODEL A CELL?: Emergent Approaches to Biological Research. Soundings, 2007, 90, 91-101.	0.1	O

#	Article	IF	CITATIONS
3303	Introduction: Advances in Plant Omics and Systems Biology. Advances in Experimental Medicine and Biology, 2021, 1346, 1-9.	0.8	3
3304	Current Challenges in Plant Systems Biology. Advances in Experimental Medicine and Biology, 2021, 1346, 155-170.	0.8	0
3305	Discrete Logic Modeling of Cell Signaling Pathways. Methods in Molecular Biology, 2022, 2488, 159-181.	0.4	3
3306	Sparse Triangular Decomposition for Computing Equilibria of Biological Dynamic Systems Based on Chordal Graphs. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, PP, 1-1.	1.9	2
3307	OUP accepted manuscript. Briefings in Functional Genomics, 2022, , .	1.3	3
3308	Mathematical Modelling in Plant Synthetic Biology. Methods in Molecular Biology, 2022, 2379, 209-251.	0.4	0
3309	Optimal Experimental Design Based on Two-Dimensional Likelihood Profiles. Frontiers in Molecular Biosciences, 2022, 9, 800856.	1.6	1
3310	Progress towards the Elusive Mastitis Vaccines. Vaccines, 2022, 10, 296.	2.1	13
3311	Identification of phenotype-specific networks from paired gene expression–cell shape imaging data. Genome Research, 2022, 32, 750-765.	2.4	5
3312	Irreducibly social: Why biocriminology $\hat{a} \in \mathbb{N}$ s onto epistemology is incompatible with the social reality of crime. Theoretical Criminology, 0, , 136248062110736.	1.4	4
3313	Fast and accurate gene regulatory network inference by normalized least squares regression. Bioinformatics, 2022, 38, 2263-2268.	1.8	6
3314	Genomics-Based Systems and Multi-disciplinary Approaches to Unlock Complex Gene Networks Underlying Wood Formation. Current Forestry Reports, 0, , 1.	3.4	0
3316	The Future of Burn Care From a Complexity Science Perspective. Journal of Burn Care and Research, 2022, 43, 1312-1321.	0.2	6
3318	Hybrid modelling of biological systems: current progress and future prospects. Briefings in Bioinformatics, 2022, 23, .	3.2	8
3319	Clinical Phenotypes of Cardiovascular and Heart Failure Diseases Can Be Reversed? The Holistic Principle of Systems Biology in Multifaceted Heart Diseases. Neurology International, 2022, 12, 142-169.	0.2	0
3320	7P pediatrics â€" Medicine of Development and Health Programming. Vestnik Rossiiskoi Akademii Meditsinskikh Nauk, 2021, 76, 622-634.	0.2	2
3321	Reconfigurable microfluidics. Nature Reviews Chemistry, 2022, 6, 70-80.	13.8	38
3322	Microbial Systems Ecology to Understand Cross-Feeding in Microbiomes. Frontiers in Microbiology, 2021, 12, 780469.	1.5	13

#	Article	IF	CITATIONS
3323	Review on Microbial Degradation of Aromatic Hydrocarbons: Focus on Kinetics Modelling. UMYU Journal of Microbiology Research, 2021, 6, 74-86.	0.1	0
3324	Are some species $\hat{a} \in \mathbb{R}^{\infty}$ to exploitation? Explaining persistence in deceptive relationships. Evolutionary Ecology, 0 , 0 , 0 .	0.5	0
3325	Bacterial Metabolomics: Sample Preparation Methods. Biochemistry Research International, 2022, 2022, 1-14.	1.5	10
3327	The Polypharmacology Gap Between Chemical Biology and Drug Discovery. Chemical Biology, 2017, , 349-370.	0.1	0
3328	Postgenomic Challenges in Plant Bioinformatics. , 2004, , 137-143.		0
3379	An Overview of Systems Biology. , 0, , 41-66.		1
3381	Towards the integration of computational systems biology and high-throughput data: supporting differential analysis of microarray gene expression data. Journal of Integrative Bioinformatics, 2008, 5, .	1.0	1
3382	In silico strain optimization by adding reactions to metabolic models. Journal of Integrative Bioinformatics, 2012, 9, 202.	1.0	0
3384	Using Systems and Systems Thinking to Unify Biology Education. CBE Life Sciences Education, 2022, 21, es3.	1,1	16
3385	Integrated Transcriptome and Proteome Analyses of Maize Inbred lines in Response to Salt Stress. Agronomy, 2022, 12, 1053.	1.3	3
3386	Systems Thinking in Ecological and Physiological Systems and the Role of Representations. , 2022, , $105-121$.		1
3387	Omics technologies for high-throughput-screening of cell–biomaterial interactions. Molecular Omics, 2022, 18, 591-615.	1.4	7
3388	Clinical Translation of Microbiome Research in Alopecia Areata: A New Perspective?. Cosmetics, 2022, 9, 55.	1.5	3
3389	Exosome Carrier Effects; Resistance to Digestion in Phagolysosomes May Assist Transfers to Targeted Cells; II Transfers of miRNAs Are Better Analyzed via Systems Approach as They Do Not Fit Conventional Reductionist Stoichiometric Concepts. International Journal of Molecular Sciences, 2022, 23, 6192.	1.8	5
3390	Evaluation of surgical skill using machine learning with optimal wearable sensor locations. PLoS ONE, 2022, 17, e0267936.	1.1	10
3391	Comparing neural models for nested and overlapping biomedical event detection. BMC Bioinformatics, 2022, 23, .	1.2	2
3392	Social impact and governance of AI and neurotechnologies. Neural Networks, 2022, 152, 542-554.	3.3	12
3393	Biomolecular Computing Devices in Synthetic Biology. , 0, , .		0

#	ARTICLE	IF	CITATIONS
3396	Network-Based Methods for Approaching Human Pathologies from a Phenotypic Point of View. Genes, 2022, 13, 1081.	1.0	5
3397	Beyond Efficiency: Surface Electromyography Enables Further Insights into the Surgical Movements of Urologists. Journal of Endourology, 2022, 36, 1355-1361.	1.1	2
3398	pyABC: Efficient and robust easy-to-use approximate Bayesian computation. Journal of Open Source Software, 2022, 7, 4304.	2.0	13
3399	Physics shapes signals in nerves. European Physical Journal Plus, 2022, 137, .	1.2	0
3400	A mathematical model of GLUT1 modulation in rods and RPE and its differential impact in cell metabolism. Scientific Reports, 2022, 12, .	1.6	2
3401	System and network biology-based computational approaches for drug repositioning. , 2022, , 267-290.		3
3402	Repurposing Drugs via Network Analysis: Opportunities for Psychiatric Disorders. Pharmaceutics, 2022, 14, 1464.	2.0	8
3404	Design considerations for representing systems biology information with the Systems Biology Graphical Notation. Journal of Integrative Bioinformatics, 2022, .	1.0	1
3406	Metabolomic profiling relates tianeptine effectiveness with hippocampal GABA, myo-inositol, cholesterol, and fatty acid metabolism restoration in socially isolated rats. Psychopharmacology, 2022, 239, 2955-2974.	1.5	3
3407	Revisiting Theoretical Tools and Approaches for the Valorization of Recalcitrant Lignocellulosic Biomass to Value-Added Chemicals. Frontiers in Energy Research, 0, 10, .	1.2	9
3408	A complex systems approach to aging biology. Nature Aging, 2022, 2, 580-591.	5.3	52
3409	Hallmarks of neurodegenerative disease: A systems pharmacology perspective. CPT: Pharmacometrics and Systems Pharmacology, 2022, 11, 1399-1429.	1.3	15
3412	Blotltâ€"Optimal alignment of Western blot and qPCR experiments. PLoS ONE, 2022, 17, e0264295.	1.1	4
3414	Mathematical modeling of the molecular switch of TNFR1-mediated signaling pathways applying Petri net formalism and in silico knockout analysis. PLoS Computational Biology, 2022, 18, e1010383.	1.5	4
3415	Dynamical analysis of a delayed p53 oscillator model with p53-Mdm2 positive feedback. Results in Physics, 2022, 40, 105856.	2.0	1
3417	The network perspective: Vertical connections linking organizational levels. Ecological Modelling, 2022, 473, 110112.	1.2	2
3418	The pathophysiology of major depressive disorder through the lens of systems biology: Network analysis of the psycho-immune-neuroendocrine physiome. Journal of Neuroimmunology, 2022, 372, 577959.	1.1	5
3419	Polypharmacology and Natural Products. , 2022, , 625-646.		1

#	Article	IF	CITATIONS
3420	Polypharmacology in Drug Design and Discoveryâ€"Basis for Rational Design of Multitarget Drugs. , 2022, , 397-533.		1
3421	Conservation physiology and the management of wild fish populations in the Anthropocene. Fish Physiology, 2022, , 1-31.	0.2	3
3422	Horizontal Integration: Disease – Cancer Systems Biology. , 2022, , .		0
3423	Photo/Thermo Dual Stimulus-Responsive Liquid Marbles Stabilized with Polypyrrole-Coated Stearic Acid Particles. ACS Applied Materials & Interfaces, 2022, 14, 41618-41628.	4.0	12
3424	Perspectives of (/memorandum for) systems thinking on COVIDâ€19 pandemic and pathology. Journal of Evaluation in Clinical Practice, 2023, 29, 415-429.	0.9	6
3425	Research-driven education: An introductory course to systems and synthetic biology. Frontiers in Systems Biology, 0, 2, .	0.5	0
3427	Machine learning alternative to systems biology should not solely depend on data. Briefings in Bioinformatics, 2022, 23, .	3.2	5
3428	Omics profiling identifies the regulatory functions of the MAPK/ERK pathway in nephron progenitor metabolism. Development (Cambridge), 2022, 149, .	1.2	1
3429	General Design Strategy to Precisely Control the Emission of Fluorophores via a Twisted Intramolecular Charge Transfer (TICT) Process. Journal of the American Chemical Society, 2022, 144, 19778-19790.	6.6	41
3430	Systems biology of human aging: A Fibonacci time series model. Progress in Biophysics and Molecular Biology, 2023, 177, 24-33.	1.4	3
3431	Cyanobacteria Natural Products as Sources for Future Directions in <i>Antibiotic</i> Drug Discovery.		2
3433	Adaptive Finite-Time Control of Stochastic Genetic Regulatory Networks with Time-Varying Delays. Mathematics, 2022, 10, 4071.	1.1	1
3434	Design principles and mechanistic explanation. History and Philosophy of the Life Sciences, 2022, 44, .	0.6	0
3435	MLAGO: machine learning-aided global optimization for Michaelis constant estimation of kinetic modeling. BMC Bioinformatics, 2022, 23, .	1.2	2
3436	The role of computational toxicology in the risk assessment of food products. , 2023, , 643-659.		1
3437	CAN WE MODEL A CELL?: Emergent Approaches to Biological Research. Soundings, 2007, 90, 91-101.	0.1	0
3438	Neurochemical Mobile: A Heuristic Tool for Understanding Dynamic Complexity and Treatment of Alcohol Withdrawal., 2022,, 933-954.		0
3439	An integrated in silico-in vitro approach for identifying therapeutic targets against osteoarthritis. BMC Biology, 2022, 20, .	1.7	2

#	Article	IF	CITATIONS
3440	Monitoring and modelling the dynamics of the cellular glycolysis pathway: A review and future perspectives. Molecular Metabolism, 2022, 66, 101635.	3.0	12
3441	Omics Methods in Toxins Researchâ€"A Toolkit to Drive the Future of Scientific Inquiry. Toxins, 2022, 14, 761.	1.5	1
3442	Forgetful, sad and old: Do vascular cognitive impairment and depression share a common pre-disease network and how is it impacted by ageing?. Journal of Psychiatric Research, 2022, 156, 611-627.	1.5	5
3443	Gene co-expression network analysis of the human gut commensal bacterium Faecalibacterium prausnitzii in R-Shiny. PLoS ONE, 2022, 17, e0271847.	1.1	5
3445	Network location and clustering of genetic mutations determine chronicity in a stylized model of genetic diseases. Scientific Reports, 2022, 12, .	1.6	0
3447	Metabolomics in Cell Biology. , 2016, , 366-378.		O
3448	Bioinformatic Prediction of Non-Coding Genes related to the Mouse FGF8, NOG, and BMP4 Ectodermal Differentiation Pathway Genes and Mapping of Related Network. Majallah-i DÄnishgÄh-i 'UlÅ«m-i PizishkÄ«-i Ä⁵ 2022, 30, 29-41.	läm,	0
3449	Construction and analysis of gene co-expression network in the pathogenic fungus Ustilago maydis. Frontiers in Microbiology, 0, 13 , .	1.5	O
3450	Do Resettled People Adapt to Their Current Geographical Environment? Evidence from Poverty-Stricken Areas of Northwest Yunnan Province, China. International Journal of Environmental Research and Public Health, 2023, 20, 193.	1.2	0
3451	Boolean modeling reveals that cyclic attractors in macrophage polarization serve as reservoirs of states to balance external perturbations from the tumor microenvironment. Frontiers in Immunology, $0,13,.$	2.2	3
3453	Comparison of rule- and ordinary differential equation-based dynamic model of DARPP-32 signalling network. PeerJ, 0, 10, e14516.	0.9	0
3455	Seasonal Changes in Upper Thermal Tolerances of Freshwater Thai Fishes. Water (Switzerland), 2023, 15, 350.	1.2	1
3457	Associations between the human immune system and gut microbiome with neurodevelopment in the first 5Âyears of life: A systematic scoping review. Developmental Psychobiology, 2023, 65, .	0.9	4
3458	Photo- and Thermoresponsive Liquid Marbles Based on Fatty Acid as Phase Change Material Coated by Polypyrrole: From Design to Applications. Langmuir, 2023, 39, 878-889.	1.6	7
3459	Testing hypotheses on the calcification in scleractinian corals using a spatio-temporal model that shows a high degree of robustness. Journal of Theoretical Biology, 2023, 561, 111382.	0.8	2
3460	Graphical Construction of Stability Certificates for Biomolecular Interaction Networks. , 2022, , .		O
3461	Computational Immunology – From Bench to Virtual Reality. Annals of the Academy of Medicine, Singapore, 2007, 36, 123-127.	0.2	5
3462	Systems biology in COVID-19., 2023, , 301-320.		O

#	Article	IF	CITATIONS
3463	Biological knowledge graph-guided investigation of immune therapy response in cancer with graph neural network. Briefings in Bioinformatics, 2023, 24, .	3.2	5
3464	Integrative pathway and network analysis provide insights on flooding-tolerance genes in soybean. Scientific Reports, 2023, 13, .	1.6	1
3465	Recent advances in in silico approaches for removal of environmental pollutants., 2023,, 223-237.		0
3467	Deciphering crucial genes in multiple sclerosis pathogenesis and drug repurposing: A systems biology approach. Journal of Proteomics, 2023, 280, 104890.	1.2	1
3468	Immune responses to vaccines: from classical to systems approaches. , 2022, , 111-152.		0
3469	An extension to the NK fitness landscape model to study pleiotropy, epistasis, and ruggedness independently., 2022,,.		1
3470	scAEGAN: Unification of single-cell genomics data by adversarial learning of latent space correspondences. PLoS ONE, 2023, 18, e0281315.	1.1	3
3471	Impacts of Different Prenatal Supplementation Strategies on the Plasma Metabolome of Bulls in the Rearing and Finishing Phase. Metabolites, 2023, 13, 259.	1.3	0
3472	Detecting Active Molecular Subpathways Related to Alzheimer's Disease: A Systems Biology Approach. , 2023, , 1-19.		0
3473	Manifold epigenetics: A conceptual model that guides engineering strategies to improve whole-body regenerative health. Frontiers in Cell and Developmental Biology, $0,11,.$	1.8	0
3474	Does the current state of biomarker discovery in autism reflect the limits of reductionism in precision medicine? Suggestions for an integrative approach that considers dynamic mechanisms between brain, body, and the social environment. Frontiers in Psychiatry, 0, 14, .	1.3	1
3475	Precision (personalized) medicine., 2023,, 73-103.		0
3476	LPG-Based Knowledge Graphs: A Survey, a Proposal and Current Trends. Information (Switzerland), 2023, 14, 154.	1.7	2
3477	Prospects for the application of traditional Chinese medicine network pharmacology in food science research. Journal of the Science of Food and Agriculture, 2023, 103, 5183-5200.	1.7	5
3480	Graphical characterizations of robust stability in biological interaction networks. Mathematics of Control, Signals, and Systems, 0 , , .	1.4	0
3481	Kinetic analysis of p53 gene network with time delays and PIDD. International Journal of Biomathematics, 2024, 17, .	1.5	1
3482	Exploration of the Adaptive Capacity of Residents of Remote Mountain Villages. Sustainability, 2023, 15, 5917.	1.6	0
3483	Surrogate infection model predicts optimal alveolar macrophage number for clearance of Aspergillus fumigatus infections. Npj Systems Biology and Applications, 2023, 9, .	1.4	1

#	Article	IF	CITATIONS
3484	Unrevealing of dysregulated hub genes linked with immune system and inflammatory signaling pathways in the pathogenesis of irritable bowel syndrome by system biology approaches. Informatics in Medicine Unlocked, 2023, 39, 101241.	1.9	1
3485	Automatic Generation of SBML Kinetic Models from Natural Language Texts Using GPT. International Journal of Molecular Sciences, 2023, 24, 7296.	1.8	1
3486	The roles of plant proteases and protease inhibitors in drought response: a review. Frontiers in Plant Science, 0, 14, .	1.7	5
3487	Systems Biology: Identifiability Analysis and Parameter Identification via Systems-Biology-Informed Neural Networks. Methods in Molecular Biology, 2023, , 87-105.	0.4	3
3488	Repurposing of phytocompounds-derived novel bioactive compounds possessing promising anticancer and cancer therapeutic efficacy through molecular docking, MD simulation, and drug-likeness/ADMET studies., 2023,, 201-222.		0
3491	The Role of Molecular Imaging in Personalized Medicine. , 2023, , 1223-1238.		0
3497	Applications in the Field of Bioinformatics. , 2023, , 175-188.		1
3501	Network Pharmacology and Systems Biology in Drug Discovery. , 2023, , 231-252.		0
3504	Systems biology and data science in research and translational medicine., 2023,, 25-39.		0
3509	Network Biology and Medicine to Rescue: Applications for Retinal Disease Mechanisms and Therapy. Advances in Experimental Medicine and Biology, 2023, , 165-171.	0.8	0
3513	Detecting Active Molecular Subpathways Related to Alzheimer's Disease: A Systems Biology Approach. , 2023, , 91-109.		0
3514	Systems Biology. , 2023, , 2993-2995.		0
3517	The Digitalisation of Risk Assessment: Fulfilling the Promises of Prediction?. SpringerBriefs in Applied Sciences and Technology, 2023, , 11-19.	0.2	0
3521	Quantitative systems-based prediction of antimicrobial resistance evolution. Npj Systems Biology and Applications, 2023, 9, .	1.4	1
3527	On Estimating Derivatives ofÂlnput Signals inÂBiochemistry. Lecture Notes in Computer Science, 2023, , 78-96.	1.0	0
3528	Controlled Vocabularies and Semantics in Systems Biology. , 2023, , 136-149.		0
3529	Biological Systems to Computational Systems Biology. , 2023, , 108-135.		0
3530	Systems andÂNetworks. Computational Biology, 2023, , 139-156.	0.1	0

#	Article	IF	CITATIONS
3534	Designing sustainable systems using nature's toolbox. Sustainability Science, 0, , .	2.5	0
3539	On the Evolutionary Development of Biological Organization from Complex Prebiotic Chemistry. History, Philosophy and Theory of the Life Sciences, 2024, , 187-218.	0.4	O
3543	Abiotic Stress Sensitivity and Adaptation in Field Crops. , 2023, , 319-362.		1
3549	Metastasis Models: Thermodynamics and Complexity. Methods in Molecular Biology, 2024, , 45-75.	0.4	O
3550	Earth Systems Science (ESS) and Systems Ecology. , 2023, , 113-166.		0
3563	Systems biology study of Huntington's disease. , 2024, , 353-396.		0
3564	System Biology and Protein Structure Prediction by Computer. Evolutionary Studies, 2024, , 59-65.	0.2	0
3566	Functional overrepresentation analysis and their application in microbial pathogenesis., 2024,, 171-179.		0
3568	Cancer Networks: Insights Into The DiseaseMechanisms. , 2023, , .		0