

# Claudine Chaouiya

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

4,399  
citations

159585

30  
h-index

118850

62  
g-index

79  
all docs

79  
docs citations

79  
times ranked

3296  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical analysis of a generic Boolean model for the control of the mammalian cell cycle. <i>Bioinformatics</i> , 2006, 22, e124-e131.	4.1	570
2	Petri net modelling of biological networks. <i>Briefings in Bioinformatics</i> , 2007, 8, 210-219.	6.5	336
3	Modeling ERBB receptor-regulated G1/S transition to find novel targets for de novo trastuzumab resistance. <i>BMC Systems Biology</i> , 2009, 3, 1.	3.0	242
4	Logical Modeling and Dynamical Analysis of Cellular Networks. <i>Frontiers in Genetics</i> , 2016, 7, 94.	2.3	216
5	Logical modelling of regulatory networks with GINsim 2.3. <i>BioSystems</i> , 2009, 97, 134-139.	2.0	188
6	<scp>SBML</scp> Level 3: an extensible format for the exchange and reuse of biological models. <i>Molecular Systems Biology</i> , 2020, 16, e9110.	7.2	178
7	Diversity and Plasticity of Th Cell Types Predicted from Regulatory Network Modelling. <i>PLoS Computational Biology</i> , 2010, 6, e1000912.	3.2	167
8	GINsim: A software suite for the qualitative modelling, simulation and analysis of regulatory networks. <i>BioSystems</i> , 2006, 84, 91-100.	2.0	165
9	SBML qualitative models: a model representation format and infrastructure to foster interactions between qualitative modelling formalisms and tools. <i>BMC Systems Biology</i> , 2013, 7, 135.	3.0	145
10	Path2Models: large-scale generation of computational models from biochemical pathway maps. <i>BMC Systems Biology</i> , 2013, 7, 116.	3.0	145
11	Logical Modelling of Gene Regulatory Networks with GINsim. <i>Methods in Molecular Biology</i> , 2012, 804, 463-479.	0.9	134
12	Dynamically consistent reduction of logical regulatory graphs. <i>Theoretical Computer Science</i> , 2011, 412, 2207-2218.	0.9	117
13	Cooperative development of logical modelling standards and tools with CoLoMoTo. <i>Bioinformatics</i> , 2015, 31, 1154-1159.	4.1	98
14	A Modeling Approach to Explain Mutually Exclusive and Co-Occurring Genetic Alterations in Bladder Tumorigenesis. <i>Cancer Research</i> , 2015, 75, 4042-4052.	0.9	96
15	Segmenting the fly embryo: logical analysis of the role of the Segment Polarity cross-regulatory module. <i>International Journal of Developmental Biology</i> , 2008, 52, 1059-1075.	0.6	85
16	Model Checking to Assess T-Helper Cell Plasticity. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014, 2, 86.	4.1	82
17	Bringing Dicynodonts Back to Life: Paleobiology and Anatomy of a New Emydopoid Genus from the Upper Permian of Mozambique. <i>PLoS ONE</i> , 2013, 8, e80974.	2.5	78
18	The Systems Biology Markup Language (SBML): Language Specification for Level 3 Version 2 Core Release 2. <i>Journal of Integrative Bioinformatics</i> , 2019, 16, .	1.5	78

#	ARTICLE	IF	CITATIONS
19	Decision Diagrams for the Representation and Analysis of Logical Models of Genetic Networks. Lecture Notes in Computer Science, 2007, , 233-247.	1.3	77
20	Logical Modeling and Analysis of Cellular Regulatory Networks With GINsim 3.0. Frontiers in Physiology, 2018, 9, 646.	2.8	75
21	The CoLoMoTo Interactive Notebook: Accessible and Reproducible Computational Analyses for Qualitative Biological Networks. Frontiers in Physiology, 2018, 9, 680.	2.8	67
22	Qualitative modelling of regulated metabolic pathways: application to the tryptophan biosynthesis in E.Coli. Bioinformatics, 2005, 21, ii190-ii196.	4.1	65
23	Dynamical modeling and analysis of large cellular regulatory networks. Chaos, 2013, 23, 025114.	2.5	62
24	Petri net modelling of biological regulatory networks. Journal of Discrete Algorithms, 2008, 6, 165-177.	0.7	61
25	Modular logical modelling of the budding yeast cell cycle. Molecular BioSystems, 2009, 5, 1787.	2.9	58
26	A description of dynamical graphs associated to elementary regulatory circuits. Bioinformatics, 2003, 19, ii172-ii178.	4.1	55
27	Mapping multivalued onto Boolean dynamics. Journal of Theoretical Biology, 2011, 270, 177-184.	1.7	42
28	Logical modelling of the role of the Hh pathway in the patterning of the <i>Drosophila</i> wing disc. Bioinformatics, 2008, 24, i234-i240.	4.1	41
29	Qualitative Modelling of Genetic Networks: From Logical Regulatory Graphs to Standard Petri Nets. Lecture Notes in Computer Science, 2004, , 137-156.	1.3	39
30	The extended kanban control system for production coordination of assembly manufacturing systems. IIE Transactions, 2000, 32, 999-1012.	2.1	37
31	Hybrid Epithelialâ€“Mesenchymal Phenotypes Are Controlled by Microenvironmental Factors. Cancer Research, 2020, 80, 2407-2420.	0.9	34
32	Petri net representation of multi-valued logical regulatory graphs. Natural Computing, 2011, 10, 727-750.	3.0	30
33	A Discrete Model of <i>Drosophila</i> Eggshell Patterning Reveals Cell-Autonomous and Juxtacrine Effects. PLoS Computational Biology, 2014, 10, e1003527.	3.2	26
34	Modelling the onset of senescence at the G1/S cell cycle checkpoint. BMC Genomics, 2014, 15, S7.	2.8	26
35	Setting the basis of best practices and standards for curation and annotation of logical models in biologyâ€”highlights of the [BC]2 2019 CoLoMoTo/SysMod Workshop. Briefings in Bioinformatics, 2021, 22, 1848-1859.	6.5	25
36	From Logical Regulatory Graphs to Standard Petri Nets: Dynamical Roles and Functionality of Feedback Circuits. Lecture Notes in Computer Science, 2006, , 56-72.	1.3	25

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37	Dynamical Analysis of the Regulatory Network Defining the Dorsal-Ventral Boundary of the <i>Drosophila</i> Wing Imaginal Disc. <i>Genetics</i> , 2006, 174, 1625-1634.	2.9	23
38	Meeting report from the fourth meeting of the Computational Modeling in Biology Network (COMBINE). <i>Standards in Genomic Sciences</i> , 2014, 9, 1285-1301.	1.5	21
39	Qualitative Petri Net Modelling of Genetic Networks. <i>Lecture Notes in Computer Science</i> , 2006, , 95-112.	1.3	21
40	The Systems Biology Markup Language (SBML) Level 3 Package: Qualitative Models, Version 1, Release 1. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 270.	1.5	21
41	The extended kanban control system for production coordination of assembly manufacturing systems. <i>IIE Transactions</i> , 2000, 32, 999-1012.	2.1	20
42	Composition and abstraction of logical regulatory modules: application to multicellular systems. <i>Bioinformatics</i> , 2013, 29, 749-757.	4.1	19
43	Estimating Attractor Reachability in Asynchronous Logical Models. <i>Frontiers in Physiology</i> , 2018, 9, 1161.	2.8	19
44	Efficient Handling of Large Signalling-Regulatory Networks by Focusing on Their Core Control. <i>Lecture Notes in Computer Science</i> , 2012, , 288-306.	1.3	19
45	Dynamical modeling of biological regulatory networks. <i>BioSystems</i> , 2006, 84, 77-80.	2.0	16
46	SBML Level 3 package: Qualitative Models, Version 1, Release 1. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 691-730.	1.5	15
47	Primary sex determination of placental mammals: a modelling study uncovers dynamical developmental constraints in the formation of Sertoli and granulosa cells. <i>BMC Systems Biology</i> , 2016, 10, 37.	3.0	14
48	The Minimum Information about a Molecular Interaction CAusal Statement (MI2CAST). <i>Bioinformatics</i> , 2021, 36, 5712-5718.	4.1	14
49	EpiLog: A software for the logical modelling of epithelial dynamics. <i>F1000Research</i> , 2018, 7, 1145.	1.6	14
50	Majority Rules with Random Tie-Breaking in Boolean Gene Regulatory Networks. <i>PLoS ONE</i> , 2013, 8, e69626.	2.5	13
51	Logical Modelling of Regulatory Networks, Methods and Applications. <i>Bulletin of Mathematical Biology</i> , 2013, 75, 891-895.	1.9	11
52	EpiLog: A software for the logical modelling of epithelial dynamics. <i>F1000Research</i> , 2018, 7, 1145.	1.6	11
53	Logical modelling uncovers developmental constraints for primary sex determination of chicken gonads. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180165.	3.4	10
54	Automatic Inference of Regulatory and Dynamical Properties from Incomplete Gene Interaction and Expression Data. <i>Lecture Notes in Computer Science</i> , 2012, , 25-30.	1.3	10

#	ARTICLE	IF	CITATIONS
55	Addressing <i>barriers in comprehensiveness, accessibility, reusability, interoperability and reproducibility of computational models in systems biology</i>. Briefings in Bioinformatics, 2022, 23, .	6.5	10
56	Assessing regulatory features of the current transcriptional network of <i>Saccharomyces cerevisiae</i> . Scientific Reports, 2020, 10, 17744.	3.3	8
57	SysMod: the ISCB community for data-driven computational modelling and multi-scale analysis of biological systems. Bioinformatics, 2021, 37, 3702-3706.	4.1	6
58	Efficient Verification for Logical Models of Regulatory Networks. Advances in Intelligent and Soft Computing, 2012, , 259-267.	0.2	6
59	A Modular, Qualitative Modeling of Regulatory Networks Using Petri Nets. Computational Biology, 2011, , 253-279.	0.2	5
60	Stable States of Boolean Regulatory Networks Composed Over Hexagonal Grids. Electronic Notes in Theoretical Computer Science, 2018, 335, 113-130.	0.9	5
61	Discrete Modelling: Petri Net and Logical Approaches. Systems Biology, 2010, , 821-855.	0.1	5
62	Model Checking Logical Regulatory Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 170-175.	0.4	4
63	Interactions Elicited by the Contradiction Between Figure Direction Discrimination and Figure-Ground Segregation. Frontiers in Psychology, 2018, 9, 1681.	2.1	4
64	Qualitative modelling of biological regulatory networks combining a logical multi-valued formalism and Petri nets. , 2008, , .		2
65	Local Negative Circuits and Cyclic Attractors in Boolean Networks with at most Five Components. SIAM Journal on Applied Dynamical Systems, 2019, 18, 68-79.	1.6	1
66	In Silico Logical Modelling to Uncover Cooperative Interactions in Cancer. International Journal of Molecular Sciences, 2021, 22, 4897.	4.1	1
67	Reduction of logical models of regulatory networks yields insight into dynamical properties. , 2010, , .		0
68	656 Mathematical Modeling of Bladder Tumorigenesis. European Journal of Cancer, 2012, 48, S155-S156.	2.8	0
69	Impact of changing cell-cell communication network in models of epithelial pattern formation. IFAC-PapersOnLine, 2019, 52, 38-44.	0.9	0
70	Relating Formalisms for the Qualitative Modelling of Regulatory Networks. Advances in Intelligent and Soft Computing, 2011, , 293-302.	0.2	0
71	From Gradients to Stripes: A Logical Analysis of <i>Drosophila</i> Segmentation Genetic Network. , 2006, , 379-390.		0