

Marco Vanoni

List of Publications by Year in descending order

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107
papers

3,124
citations

136950

32
h-index

197818

49
g-index

114
all docs

114
docs citations

114
times ranked

4446
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutamine Deprivation Induces Abortive S-Phase Rescued by Deoxyribonucleotides in K-Ras Transformed Fibroblasts. <i>PLoS ONE</i> , 2009, 4, e4715.	2.5	131
2	Conglutin α , a lupin seed protein, binds insulin in vitro and reduces plasma glucose levels of hyperglycemic rats. <i>Journal of Nutritional Biochemistry</i> , 2004, 15, 646-650.	4.2	129
3	5-Fluorouracil resistant colon cancer cells are addicted to OXPHOS to survive and enhance stem-like traits. <i>Oncotarget</i> , 2015, 6, 41706-41721.	1.8	103
4	Glucose Signaling-Mediated Coordination of Cell Growth and Cell Cycle in <i>Saccharomyces Cerevisiae</i> . <i>Sensors</i> , 2010, 10, 6195-6240.	3.8	102
5	Redox-Mediated Regulation of p21 ^{Waf1/Cip1} Expression Involves a Post-Transcriptional Mechanism and Activation of the Mitogen-Activated Protein Kinase Pathway. <i>FEBS Journal</i> , 1997, 245, 730-737.	0.2	97
6	Cell Size at S Phase Initiation: An Emergent Property of the G1/S Network. <i>PLoS Computational Biology</i> , 2007, 3, e64.	3.2	96
7	The Insulin-Like Growth Factor Receptor I Promotes Motility and Invasion of Bladder Cancer Cells through Akt- and Mitogen-Activated Protein Kinase-Dependent Activation of Paxillin. <i>American Journal of Pathology</i> , 2010, 176, 2997-3006.	3.8	91
8	Drought and frost contribute to abrupt growth decreases before tree mortality in nine temperate tree species. <i>Forest Ecology and Management</i> , 2016, 382, 51-63.	3.2	76
9	Tipifarnib as a Precision Therapy for <i>HRAS</i> -Mutant Head and Neck Squamous Cell Carcinomas. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 1784-1796.	4.1	72
10	Integration of single-cell RNA-seq data into population models to characterize cancer metabolism. <i>PLoS Computational Biology</i> , 2019, 15, e1006733.	3.2	70
11	Expression of transforming K-Ras oncogene affects mitochondrial function and morphology in mouse fibroblasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 1338-1356.	1.0	68
12	Analysis of protein distribution in budding yeast. <i>Biotechnology and Bioengineering</i> , 1983, 25, 1295-1310.	3.3	66
13	The yeast cyclin-dependent kinase inhibitor Sic1 and mammalian p27 ^{Kip1} are functional homologues with a structurally conserved inhibitory domain. <i>Biochemical Journal</i> , 2005, 387, 639-647.	3.7	66
14	Order propensity of an intrinsically disordered protein, the cyclin-dependent kinase inhibitor Sic1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 76, 731-746.	2.6	64
15	A metabolic core model elucidates how enhanced utilization of glucose and glutamine, with enhanced glutamine-dependent lactate production, promotes cancer cell growth: The WarburQ effect. <i>PLoS Computational Biology</i> , 2017, 13, e1005758.	3.2	64
16	Rapamycin-mediated G1 arrest involves regulation of the Cdk inhibitor Sic1 in <i>Saccharomyces cerevisiae</i> . <i>Molecular Microbiology</i> , 2007, 63, 1482-1494.	2.5	63
17	Engineering an Environment for the Study of Fibrosis: A 3D Human Muscle Model with Endothelium Specificity and Endomysium. <i>Cell Reports</i> , 2018, 25, 3858-3868.e4.	6.4	56
18	Computational Strategies for a System-Level Understanding of Metabolism. <i>Metabolites</i> , 2014, 4, 1034-1087.	2.9	54

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19	The role of hexose transport and phosphorylation in cAMP signalling in the yeast <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2001, 1, 33-45.	2.3	49
20	A cell sizer network involving Cln3 and Far1 controls entrance into S phase in the mitotic cycle of budding yeast. <i>Journal of Cell Biology</i> , 2004, 167, 433-443.	5.2	49
21	Cell growth and cell cycle in <i>Saccharomyces cerevisiae</i> : Basic regulatory design and protein-protein interaction network. <i>Biotechnology Advances</i> , 2012, 30, 52-72.	11.7	48
22	Quantifying the effects of drought on abrupt growth decreases of major tree species in Switzerland. <i>Ecology and Evolution</i> , 2016, 6, 3555-3570.	1.9	45
23	The CK2 phosphorylation of catalytic domain of Cdc34 modulates its activity at the G ₁ to S transition in <i>Saccharomyces cerevisiae</i> . <i>Cell Cycle</i> , 2008, 7, 1391-1401.	2.6	44
24	Regulation of MAL gene expression in yeast: Gene dosage effects. <i>Molecular Genetics and Genomics</i> , 1987, 209, 508-517.	2.4	43
25	Mutations of the CK2 phosphorylation site of Sic1 affect cell size and S-Cdk kinase activity in <i>Saccharomyces cerevisiae</i> . <i>Molecular Microbiology</i> , 2004, 51, 447-460.	2.5	41
26	Macromolecular syntheses in the cell cycle mutant cdc25 of budding yeast. <i>FEBS Journal</i> , 1984, 144, 205-210.	0.2	38
27	Systems Biology and the Molecular Circuits of Cancer. <i>ChemBioChem</i> , 2004, 5, 1322-1333.	2.6	38
28	Methotrexate inhibits SARS-CoV-2 virus replication <i>in vitro</i> . <i>Journal of Medical Virology</i> , 2021, 93, 1780-1785.	5.0	38
29	Towards a systems biology approach to mammalian cell cycle: modeling the entrance into S phase of quiescent fibroblasts after serum stimulation. <i>BMC Bioinformatics</i> , 2009, 10, S16.	2.6	37
30	Analysis and modeling of growing budding yeast populations at the single cell level. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009, 75A, 114-120.	1.5	37
31	Molecular networks and system-level properties. <i>Journal of Biotechnology</i> , 2009, 144, 224-233.	3.8	37
32	First experimental identification of Ras-inhibitor binding interface using a water-soluble Ras ligand. <i>Biorganic and Medicinal Chemistry Letters</i> , 2009, 19, 4217-4222.	2.2	36
33	Zooming-in on cancer metabolic rewiring with tissue specific constraint-based models. <i>Computational Biology and Chemistry</i> , 2016, 62, 60-69.	2.3	36
34	Systems metabolomics: from metabolomic snapshots to design principles. <i>Current Opinion in Biotechnology</i> , 2020, 63, 190-199.	6.6	36
35	Selective cytotoxicity of a bicyclic Ras inhibitor in cancer cells expressing K-RasG13D. <i>Biochemical and Biophysical Research Communications</i> , 2009, 386, 593-597.	2.1	35
36	Whi5 phosphorylation embedded in the G1/S network dynamically controls critical cell size and cell fate. <i>Nature Communications</i> , 2016, 7, 11372.	12.8	35

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37	In CK2 inactivated cells the cyclin dependent kinase inhibitor Sic1 is involved in cell-cycle arrest before the onset of S phase. <i>Biochemical and Biophysical Research Communications</i> , 2007, 359, 921-927.	2.1	31
38	Snf1/AMPK promotes S-phase entrance by controlling <i>CLB5</i> transcription in budding yeast. <i>Cell Cycle</i> , 2010, 9, 2189-2200.	2.6	30
39	An Acidic Loop and Cognate Phosphorylation Sites Define a Molecular Switch That Modulates Ubiquitin Charging Activity in Cdc34-Like Enzymes. <i>PLoS Computational Biology</i> , 2011, 7, e1002056.	3.2	29
40	A dominant negative RAS-specific guanine nucleotide exchange factor reverses neoplastic phenotype in K-ras transformed mouse fibroblasts. <i>Oncogene</i> , 2000, 19, 2147-2154.	5.9	27
41	RAS and PKA pathways in cancer: new insight from transcriptional analysis. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 5257.	3.0	27
42	Loop 7 of E2 Enzymes: An Ancestral Conserved Functional Motif Involved in the E2-Mediated Steps of the Ubiquitination Cascade. <i>PLoS ONE</i> , 2012, 7, e40786.	2.5	26
43	Subcellular Localization of the Cyclin Dependent Kinase Inhibitor Sic1 is Modulated by the Carbon Source in Budding Yeast. <i>Cell Cycle</i> , 2005, 4, 1798-1807.	2.6	25
44	Sic1 is phosphorylated by CK2 on Ser201 in budding yeast cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 346, 786-793.	2.1	24
45	Cancer cell growth and survival as a system-level property sustained by enhanced glycolysis and mitochondrial metabolic remodeling. <i>Frontiers in Physiology</i> , 2012, 3, 362.	2.8	24
46	INTEGRATE: Model-based multi-omics data integration to characterize multi-level metabolic regulation. <i>PLoS Computational Biology</i> , 2022, 18, e1009337.	3.2	24
47	A Computer algorithm for the analysis of protein distribution in budding yeast. <i>Cytometry</i> , 1984, 5, 81-85.	1.8	23
48	Overexpression of the CDC25 gene, an upstream element of the ras/adenylyl cyclase pathway in <i>Saccharomyces cerevisiae</i> , allows immunological identification and characterization of its gene product. <i>Biochemical and Biophysical Research Communications</i> , 1990, 172, 61-69.	2.1	23
49	Glucose-Derived Ras Pathway Inhibitors: Evidence of Ras-Ligand Binding and Ras-GEF (Cdc25) Interaction Inhibition. <i>ChemBioChem</i> , 2007, 8, 1376-1379.	2.6	23
50	The Ras GDP/GTP cycle is regulated by oxidizing agents at the level of Ras regulators and effectors. <i>FEBS Letters</i> , 2001, 492, 139-145.	2.8	22
51	The Sso7d DNA-binding protein from <i>Sulfolobus solfataricus</i> has ribonuclease activity. <i>FEBS Letters</i> , 2001, 497, 131-136.	2.8	22
52	Comparative analysis of the molecular mechanisms controlling the initiation of chromosomal DNA replication in yeast and in mammalian cells. <i>Biotechnology Advances</i> , 2012, 30, 73-98.	11.7	22
53	Proteomic and biochemical analyses unveil tight interaction of ataxin-3 with tubulin. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 2485-2492.	2.8	21
54	A microphysiological early metastatic niche on a chip reveals how heterotypic cell interactions and inhibition of integrin subunit $\beta 3$ impact breast cancer cell extravasation. <i>Lab on A Chip</i> , 2021, 21, 1061-1072.	6.0	21

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55	Molecular cloning, nucleotide sequence and expression of a <i>Sulfolobus solfataricus</i> gene encoding a class II fumarase. <i>FEBS Letters</i> , 1994, 337, 93-98.	2.8	19
56	Identification of Gene encoding a Putative RNA-Helicase, Homologous to SKI2, in Chromosome VII of <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 1997, 13, 391-397.	1.7	19
57	Novel RasGRF1-derived Tat-fused peptides inhibiting Ras-dependent proliferation and migration in mouse and human cancer cells. <i>Biotechnology Advances</i> , 2012, 30, 233-243.	11.7	19
58	Interactions of ataxin-3 with its molecular partners in the protein machinery that sorts protein aggregates to the aggresome. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 51, 58-64.	2.8	18
59	An ensemble evolutionary constraint-based approach to understand the emergence of metabolic phenotypes. <i>Natural Computing</i> , 2014, 13, 321-331.	3.0	18
60	Effects of temperature on the yeast cell cycle analyzed by flow cytometry. <i>Cytometry</i> , 1984, 5, 530-533.	1.8	17
61	A comparative study of Whi5 and retinoblastoma proteins: from sequence and structure analysis to intracellular networks. <i>Frontiers in Physiology</i> , 2013, 4, 315.	2.8	17
62	How Epigallocatechin-3-gallate and Tetracycline Interact with the Josephin Domain of Ataxin-3 and Alter Its Aggregation Mode. <i>Chemistry - A European Journal</i> , 2015, 21, 18383-18393.	3.3	17
63	How do tree mortality models from combined tree-ring and inventory data affect projections of forest succession?. <i>Forest Ecology and Management</i> , 2019, 433, 606-617.	3.2	17
64	Single-cell Digital Twins for Cancer Preclinical Investigation. <i>Methods in Molecular Biology</i> , 2020, 2088, 331-343.	0.9	17
65	In <i>Saccharomyces cerevisiae</i> a short amino acid sequence facilitates excretion in the growth medium of periplasmic proteins. <i>Molecular Microbiology</i> , 1997, 23, 997-1007.	2.5	16
66	Binding properties and biological characterization of new sugar-derived Ras ligands. <i>MedChemComm</i> , 2011, 2, 396.	3.4	16
67	The driving role of the Cdk5/Tln1/FAKS732 axis in cancer cell extravasation dissected by human vascularized microfluidic models. <i>Biomaterials</i> , 2021, 276, 120975.	11.4	16
68	CK2 regulates in vitro the activity of the yeast cyclin-dependent kinase inhibitor Sic1. <i>Biochemical and Biophysical Research Communications</i> , 2005, 336, 1040-1048.	2.1	15
69	Proteomic Analysis of a Nutritional Shift-up in <i>Saccharomyces cerevisiae</i> Identifies Gvp36 as a BAR-containing Protein Involved in Vesicular Traffic and Nutritional Adaptation. <i>Journal of Biological Chemistry</i> , 2008, 283, 4730-4743.	3.4	15
70	Approaches to Ras signaling modulation and treatment of Ras-dependent disorders: a patent review (2007 – present). <i>Expert Opinion on Therapeutic Patents</i> , 2012, 22, 1263-1287.	5.0	15
71	Profiling and Targeting of Energy and Redox Metabolism in Grade 2 Bladder Cancer Cells with Different Invasiveness Properties. <i>Cells</i> , 2020, 9, 2669.	4.1	15
72	CK2 activity is modulated by growth rate in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 44-50.	2.1	12

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73	Respiratory metabolism and calorie restriction relieve persistent endoplasmic reticulum stress induced by calcium shortage in yeast. <i>Scientific Reports</i> , 2016, 6, 27942.	3.3	11
74	A Systems Biology Road Map for the Discovery of Drugs Targeting Cancer Cell Metabolism. <i>Current Pharmaceutical Design</i> , 2014, 20, 2648-2666.	1.9	11
75	In <i>Saccharomyces cerevisiae</i> an unbalanced level of tyrosine phosphorylation down-regulates the Ras/PKA pathway. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 444-460.	2.8	10
76	Nutritional Limitation Sensitizes Mammalian Cells to GSK-3 β Inhibitors and Leads to Growth Impairment. <i>American Journal of Pathology</i> , 2011, 178, 1814-1823.	3.8	10
77	K-Ras Activation Induces Differential Sensitivity to Sulfur Amino Acid Limitation and Deprivation and to Oxidative and Anti-Oxidative Stress in Mouse Fibroblasts. <i>PLoS ONE</i> , 2016, 11, e0163790.	2.5	10
78	Disruption of redox homeostasis for combinatorial drug efficacy in K-Ras tumors as revealed by metabolic connectivity profiling. <i>Cancer & Metabolism</i> , 2020, 8, 22.	5.0	10
79	Transcriptomics and Metabolomics Integration Reveals Redox-Dependent Metabolic Rewiring in Breast Cancer Cells. <i>Cancers</i> , 2021, 13, 5058.	3.7	10
80	An Optimized Workflow for the Analysis of Metabolic Fluxes in Cancer Spheroids Using Seahorse Technology. <i>Cells</i> , 2022, 11, 866.	4.1	10
81	Mutations at position 1122 in the catalytic domain of the mouse ras-specific guanine nucleotide exchange factor CDC25Mmoriginate both loss-of-function and gain-of-function proteins. <i>FEBS Letters</i> , 1998, 440, 291-296.	2.8	9
82	Functional coupling of the mammalian EGF receptor to the Ras/cAMP pathway in the yeast <i>Saccharomyces cerevisiae</i> . <i>Current Genetics</i> , 2008, 53, 153-162.	1.7	9
83	The isolated catalytic hairpin of the Ras-specific guanine nucleotide exchange factor Cdc25Mmretains nucleotide dissociation activity but has impaired nucleotide exchange activity. <i>FEBS Letters</i> , 2005, 579, 6851-6858.	2.8	8
84	Catalytic competence of the Ras-GEF domain of hSos1 requires intra-REM domain interactions mediated by Phenylalanine 577. <i>FEBS Letters</i> , 2006, 580, 6322-6328.	2.8	8
85	Regulation of hSos1 activity is a system-level property generated by its multi-domain structure. <i>Biotechnology Advances</i> , 2012, 30, 154-168.	11.7	8
86	Overexpression of Far1, a cyclin-dependent kinase inhibitor, induces a large transcriptional reprogramming in which RNA synthesis senses Far1 in a Sfp1-mediated way. <i>Biotechnology Advances</i> , 2012, 30, 185-201.	11.7	8
87	Natural Products Attenuating Biosynthesis, Processing, and Activity of Ras Oncoproteins: State of the Art and Future Perspectives. <i>Biomolecules</i> , 2020, 10, 1535.	4.0	8
88	¹ H-NMR and photo-CIDNP spectroscopies show a possible role for Trp23and Phe31in nucleic acid binding by P2 ribonuclease from the archaeon <i>Sulfolobus solfataricus</i> . <i>FEBS Letters</i> , 1995, 372, 135-139.	2.8	7
89	The Multi-Level Mechanism of Action of a Pan-Ras Inhibitor Explains its Antiproliferative Activity on Cetuximab-Resistant Cancer Cells. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 625979.	3.5	7
90	Structure Determination and Dynamics of Peptides Overlapping the Catalytic Hairpin of the Ras-Specific GEF Cdc25Mm. <i>Biochemistry</i> , 2003, 42, 12154-12162.	2.5	6

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91	Data recovery and integration from public databases uncovers transformation-specific transcriptional downregulation of cAMP-PKA pathway-encoding genes. BMC Bioinformatics, 2009, 10, S1.	2.6	6
92	Systems biology for biomedical innovation. Biotechnology Advances, 2012, 30, 1-3.	11.7	6
93	A modular systems biology analysis of cell cycle entrance into S-phase. Topics in Current Genetics, 2005, , 325-347.	0.7	5
94	Identification and in silico analysis of a new group of double-histone fold-containing proteins. Journal of Molecular Modeling, 2005, 12, 76-84.	1.8	3
95	An Integrated Model Quantitatively Describing Metabolism, Growth and Cell Cycle in Budding Yeast. Communications in Computer and Information Science, 2018, , 165-180.	0.5	3
96	Systems Biology and the Molecular Circuits of Cancer. ChemInform, 2004, 35, no.	0.0	2
97	Modeling Biological Timing and Synchronization Mechanisms by Means of Interconnections of Stochastic Switches. , 2018, 2, 19-24.		2
98	InSaccharomyces cerevisiae overexpression of hybrid Virus-Like-Particles correlates with altered cell volume distributions. Biotechnology Letters, 1994, 16, 1131-1134.	2.2	1
99	Qualitative behavior of a coarse-grain growth model. , 2019, , .		1
100	Integration of Single-Cell RNA-Sequencing Data into Flux Balance Cellular Automata. Lecture Notes in Computer Science, 2020, , 207-215.	1.3	1
101	Isolation and characterization of maltose non utilizing (mnu) mutants mapping outside theMAL1locus inSaccharomyces cerevisiae. FEMS Microbiology Letters, 1991, 77, 233-236.	1.8	0
102	Archaeal Serine Proteases. , 2013, , 3224-3233.		0
103	The Influence of Nutrients Diffusion on a Metabolism-driven Model of a Multi-cellular System. Fundamenta Informaticae, 2019, 171, 279-295.	0.4	0
104	Editorial overview: Network analysis and experimental models for the understanding of multifactorial human diseases. Current Opinion in Biotechnology, 2020, 63, vi-viii.	6.6	0
105	Abstract 5057: The insulin-like growth factor receptor I promotes motility and invasion of bladder cancer cells through Akt- and MAPK-dependent activation of paxillin. , 2010, , .		0
106	An ensemble approach to the study of the emergence of metabolic and proliferative disorders via Flux Balance Analysis. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 130, 92-97.	0.8	0
107	Profiling Metabolic and Signaling Phenotype of Bladder Cancer Cell Lines. FASEB Journal, 2022, 36, .	0.5	0