

Nicolas Le Novère

List of Publications by Year in descending order

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Version: 2024-02-01

132
papers

14,959
citations

31976

53
h-index

19190

118
g-index

145
all docs

145
docs citations

145
times ranked

15168
citing authors

#	ARTICLE	IF	CITATIONS
1	BioModels Database: A Public Repository for Sharing Models of Biological Processes. , 2022, , 463-467.		0
2	ATG13 dynamics in nonselective autophagy and mitophagy: insights from live imaging studies and mathematical modeling. Autophagy, 2021, 17, 1131-1141.	9.1	22
3	Neurogranin stimulates Ca ²⁺ /calmodulin-dependent kinase II by suppressing calcineurin activity at specific calcium spike frequencies. PLoS Computational Biology, 2020, 16, e1006991.	3.2	18
4	Epicardial cells derived from human embryonic stem cells augment cardiomyocyte-driven heart regeneration. Nature Biotechnology, 2019, 37, 895-906.	17.5	139
5	Communicating Structure and Function in Synthetic Biology Diagrams. ACS Synthetic Biology, 2019, 8, 1818-1825.	3.8	30
6	The Systems Biology Markup Language (SBML): Language Specification for Level 3 Version 2 Core Release 2. Journal of Integrative Bioinformatics, 2019, 16, .	1.5	78
7	BNC1 regulates cell heterogeneity in human pluripotent stem cell derived-epicardium. Development (Cambridge), 2019, 146, .	2.5	24
8	Community-driven roadmap for integrated disease maps. Briefings in Bioinformatics, 2019, 20, 659-670.	6.5	48
9	Specifications of Standards in Systems and Synthetic Biology: Status and Developments in 2017. Journal of Integrative Bioinformatics, 2018, 15, .	1.5	7
10	Simulation Experiment Description Markup Language (SED-ML) Level 1 Version 3 (L1V3). Journal of Integrative Bioinformatics, 2018, 15, .	1.5	27
11	The Systems Biology Markup Language (SBML): Language Specification for Level 3 Version 1 Core. Journal of Integrative Bioinformatics, 2018, 15, .	1.5	13
12	Modeling Meets MetabolomicsâThe WormJam Consensus Model as Basis for Metabolic Studies in the Model Organism Caenorhabditis elegans. Frontiers in Molecular Biosciences, 2018, 5, 96.	3.5	40
13	The Systems Biology Markup Language (SBML): Language Specification for Level 3 Version 2 Core. Journal of Integrative Bioinformatics, 2018, 15, .	1.5	57
14	Host lipidome analysis during rhinovirus replication in HBECs identifies potential therapeutic targets. Journal of Lipid Research, 2018, 59, 1671-1684.	4.2	37
15	Significance of stroma in biology of oral squamous cell carcinoma. Tumori, 2018, 104, 9-14.	1.1	24
16	Synthetic Biology Open Language Visual (SBOL Visual) Version 2.0. Journal of Integrative Bioinformatics, 2018, 15, .	1.5	21
17	Systems medicine disease maps: community-driven comprehensive representation of disease mechanisms. Npj Systems Biology and Applications, 2018, 4, 21.	3.0	84
18	Quick tips for creating effective and impactful biological pathways using the Systems Biology Graphical Notation. PLoS Computational Biology, 2018, 14, e1005740.	3.2	6

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19	PTEN Regulates PI(3,4)P2 Signaling Downstream of Class I PI3K. <i>Molecular Cell</i> , 2017, 68, 566-580.e10.	9.7	149
20	Tia1 dependent regulation of mRNA subcellular location and translation controls p53 expression in B cells. <i>Nature Communications</i> , 2017, 8, 530.	12.8	48
21	SBpipe: a collection of pipelines for automating repetitive simulation and analysis tasks. <i>BMC Systems Biology</i> , 2017, 11, 46.	3.0	10
22	A brief history of COMBINE. , 2017, , .		6
23	Reciprocal regulation of ARPP-16 by PKA and MAST3 kinases provides a cAMP-regulated switch in protein phosphatase 2A inhibition. <i>ELife</i> , 2017, 6, .	6.0	24
24	The systems biology format converter. <i>BMC Bioinformatics</i> , 2016, 17, 154.	2.6	30
25	Specifications of Standards in Systems and Synthetic Biology: Status and Developments in 2016. <i>Journal of Integrative Bioinformatics</i> , 2016, 13, 1-7.	1.5	12
26	Mathematical Models of Pluripotent Stem Cells: At the Dawn of Predictive Regenerative Medicine. <i>Methods in Molecular Biology</i> , 2016, 1386, 331-350.	0.9	14
27	Specifications of Standards in Systems and Synthetic Biology: Status and Developments in 2016. <i>Journal of Integrative Bioinformatics</i> , 2016, 13, 289.	1.5	7
28	Specifications of Standards in Systems and Synthetic Biology. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 1-3.	1.5	11
29	The evolution of standards and data management practices in systems biology. <i>Molecular Systems Biology</i> , 2015, 11, 851.	7.2	35
30	Systems Biology Graphical Notation: Entity Relationship language Level 1 Version 2. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 281-339.	1.5	21
31	Systems Biology Graphical Notation: Process Description language Level 1 Version 1.3. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 213-280.	1.5	15
32	Systems Biology Markup Language (SBML) Level 2 Version 5: Structures and Facilities for Model Definitions. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 731-901.	1.5	7
33	Systems Biology Graphical Notation: Activity Flow language Level 1 Version 1.2. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 340-381.	1.5	35
34	Promoting Coordinated Development of Community-Based Information Standards for Modeling in Biology: The COMBINE Initiative. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 19.	4.1	72
35	SPARQL-enabled identifier conversion with Identifiers.org. <i>Bioinformatics</i> , 2015, 31, 1875-1877.	4.1	14
36	BioModels: ten-year anniversary. <i>Nucleic Acids Research</i> , 2015, 43, D542-D548.	14.5	334

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37	Quantitative and logic modelling of molecular and gene networks. <i>Nature Reviews Genetics</i> , 2015, 16, 146-158.	16.3	406
38	Modulation of Calmodulin Lobes by Different Targets: An Allosteric Model with Hemicconcerted Conformational Transitions. <i>PLoS Computational Biology</i> , 2015, 11, e1004063.	3.2	28
39	SBOL Visual: A Graphical Language for Genetic Designs. <i>PLoS Biology</i> , 2015, 13, e1002310.	5.6	73
40	Specifications of Standards in Systems and Synthetic Biology. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 258.	1.5	14
41	Systems Biology Graphical Notation: Process Description language Level 1 Version 1.3. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 263.	1.5	20
42	Systems Biology Graphical Notation: Entity Relationship language Level 1 Version 2. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 264.	1.5	21
43	Systems Biology Markup Language (SBML) Level 2 Version 5: Structures and Facilities for Model Definitions. <i>Journal of Integrative Bioinformatics</i> , 2015, 12, 271.	1.5	42
44	COMBINE archive and OMEX format: one file to share all information to reproduce a modeling project. <i>BMC Bioinformatics</i> , 2014, 15, 369.	2.6	114
45	BioModels linked dataset. <i>BMC Systems Biology</i> , 2014, 8, 91.	3.0	11
46	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
47	The systems biology simulation core algorithm. <i>BMC Systems Biology</i> , 2013, 7, 55.	3.0	27
48	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
49	Path2Models: large-scale generation of computational models from biochemical pathway maps. <i>BMC Systems Biology</i> , 2013, 7, 116.	3.0	145
50	A community-driven global reconstruction of human metabolism. <i>Nature Biotechnology</i> , 2013, 31, 419-425.	17.5	920
51	Towards the Collaborative Curation of the Registry underlying identifiers.org. <i>Database: the Journal of Biological Databases and Curation</i> , 2013, 2013, bat017.	3.0	13
52	BioModels Database: A Repository of Mathematical Models of Biological Processes. , 2013, , 134-138.		2
53	Integration of Biochemical and Electrical Signaling-Multiscale Model of the Medium Spiny Neuron of the Striatum. <i>PLoS ONE</i> , 2013, 8, e66811.	2.5	22
54	BioModels Database: A Repository of Mathematical Models of Biological Processes. <i>Methods in Molecular Biology</i> , 2013, 1021, 189-199.	0.9	102

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55	Controlled Annotations for Systems Biology. <i>Methods in Molecular Biology</i> , 2013, 1021, 227-245.	0.9	4
56	Using Chemical Kinetics to Model Biochemical Pathways. <i>Methods in Molecular Biology</i> , 2013, 1021, 147-167.	0.9	3
57	MIRIAM Guidelines. , 2013, , 1367-1367.		0
58	SBGN. , 2013, , 1893-1895.		1
59	MIRIAM URI. , 2013, , 1367-1368.		0
60	BioModels Database: a public repository for sharing models of biological processes. , 2013, , 1-5.		0
61	Qualitative translation of relations from BioPAX to SBML qual. <i>Bioinformatics</i> , 2012, 28, 2648-2653.	4.1	20
62	Software support for SBGN maps: SBGN-ML and LibSBGN. <i>Bioinformatics</i> , 2012, 28, 2016-2021.	4.1	74
63	Structural Analysis and Stochastic Modelling Suggest a Mechanism for Calmodulin Trapping by CaMKII. <i>PLoS ONE</i> , 2012, 7, e29406.	2.5	20
64	Calcium Input Frequency, Duration and Amplitude Differentially Modulate the Relative Activation of Calcineurin and CaMKII. <i>PLoS ONE</i> , 2012, 7, e43810.	2.5	86
65	Identifiers.org and MIRIAM Registry: community resources to provide persistent identification. <i>Nucleic Acids Research</i> , 2012, 40, D580-D586.	14.5	162
66	Meeting report from the first meetings of the Computational Modeling in Biology Network (COMBINE). <i>Standards in Genomic Sciences</i> , 2011, 5, 230-242.	1.5	7
67	Reproducible computational biology experiments with SED-ML - The Simulation Experiment Description Markup Language. <i>BMC Systems Biology</i> , 2011, 5, 198.	3.0	211
68	Controlled vocabularies and semantics in systems biology. <i>Molecular Systems Biology</i> , 2011, 7, 543.	7.2	246
69	Retrieval, alignment, and clustering of computational models based on semantic annotations. <i>Molecular Systems Biology</i> , 2011, 7, 512.	7.2	32
70	JSBML: a flexible Java library for working with SBML. <i>Bioinformatics</i> , 2011, 27, 2167-2168.	4.1	81
71	Minimum Information About a Simulation Experiment (MIASE). <i>PLoS Computational Biology</i> , 2011, 7, e1001122.	3.2	133
72	Ranked retrieval of Computational Biology models. <i>BMC Bioinformatics</i> , 2010, 11, 423.	2.6	24

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73	Meredys, a multi-compartment reaction-diffusion simulator using multistate realistic molecular complexes. BMC Systems Biology, 2010, 4, 24.	3.0	33
74	Brownian diffusion of AMPA receptors is sufficient to explain fast onset of LTP. BMC Systems Biology, 2010, 4, 25.	3.0	10
75	Software that goes with the flow in systems biology. BMC Biology, 2010, 8, 140.	3.8	5
76	BioModels Database: An enhanced, curated and annotated resource for published quantitative kinetic models. BMC Systems Biology, 2010, 4, 92.	3.0	467
77	The BioPAX community standard for pathway data sharing. Nature Biotechnology, 2010, 28, 935-942.	17.5	613
78	LibSBGN: Electronic Processing of SBGN maps. Nature Precedings, 2010, , .	0.1	0
79	Ligand Depletion in vivo Modulates the Dynamic Range and Cooperativity of Signal Transduction. PLoS ONE, 2010, 5, e8449.	2.5	18
80	BioModels.net Web Services, a free and integrated toolkit for computational modelling software. Briefings in Bioinformatics, 2010, 11, 270-277.	6.5	50
81	Schizophrenic: forever young?. Genome Medicine, 2010, 2, 32.	8.2	2
82	Designing and encoding models for synthetic biology. Journal of the Royal Society Interface, 2009, 6, S405-17.	3.4	51
83	Computing phenomenologic Adair-Klotz constants from microscopic MWC parameters. BMC Systems Biology, 2009, 3, 68.	3.0	19
84	The Systems Biology Graphical Notation. Nature Biotechnology, 2009, 27, 735-741.	17.5	828
85	Data Integration and Semantic Enrichment of Systems Biology Models and Simulations. Lecture Notes in Computer Science, 2009, , 5-15.	1.3	1
86	Promoting coherent minimum reporting guidelines for biological and biomedical investigations: the MIBBI project. Nature Biotechnology, 2008, 26, 889-896.	17.5	506
87	A consensus yeast metabolic network reconstruction obtained from a community approach to systems biology. Nature Biotechnology, 2008, 26, 1155-1160.	17.5	530
88	Looking inside the box: bacterial transistor arrays. Molecular Microbiology, 2008, 69, 5-9.	2.5	7
89	Comparative models of P2X2 receptor support inter-subunit ATP-binding sites. Biochemical and Biophysical Research Communications, 2008, 375, 405-409.	2.1	8
90	An allosteric model of calmodulin explains differential activation of PP2B and CaMKII. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10768-10773.	7.1	81

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91	Systems Biology Markup Language (SBML) Level 2: Structures and Facilities for Model Definitions. Nature Precedings, 2008, , .	0.1	23
92	SED-ML " An XML Format for the Implementation of the MIASE Guidelines. Lecture Notes in Computer Science, 2008, , 176-190.	1.3	37
93	Systems Biology Markup Language (SBML) Level 2: Structures and Facilities for Model Definitions. Nature Precedings, 2007, , .	0.1	26
94	The long journey to a Systems Biology of neuronal function. BMC Systems Biology, 2007, 1, 28.	3.0	26
95	MIRIAM Resources: tools to generate and resolve robust cross-references in Systems Biology. BMC Systems Biology, 2007, 1, 58.	3.0	82
96	SBMLeditor: effective creation of models in the Systems Biology Markup Language (SBML). BMC Bioinformatics, 2007, 8, 79.	2.6	29
97	SBML Models and MathSBML. , 2007, , 395-421.		3
98	Novel pharmacological targets for the treatment of Parkinson's disease. Nature Reviews Drug Discovery, 2006, 5, 845-854.	46.4	262
99	Model storage, exchange and integration. BMC Neuroscience, 2006, 7, S11.	1.9	66
100	LGICdb: a manually curated sequence database after the genomes. Nucleic Acids Research, 2006, 34, D267-D269.	14.5	27
101	Particle-Based Stochastic Simulation in Systems Biology. Current Bioinformatics, 2006, 1, 315-320.	1.5	36
102	DARPP-32 Is a Robust Integrator of Dopamine and Glutamate Signals. PLoS Computational Biology, 2006, 2, e176.	3.2	139
103	CellML2SBML: conversion of CellML into SBML. Bioinformatics, 2006, 22, 1018-1020.	4.1	32
104	BioModels Database: a free, centralized database of curated, published, quantitative kinetic models of biochemical and cellular systems. Nucleic Acids Research, 2006, 34, D689-D691.	14.5	661
105	Minimum information requested in the annotation of biochemical models (MIRIAM). Nature Biotechnology, 2005, 23, 1509-1515.	17.5	553
106	Normal Mode Analysis Suggests a Quaternary Twist Model for the Nicotinic Receptor Gating Mechanism. Biophysical Journal, 2005, 88, 3954-3965.	0.5	178
107	Rational Understanding of Nicotinic Receptors Drug Binding. Current Topics in Medicinal Chemistry, 2004, 4, 645-651.	2.1	28
108	An Extracellular Protein Microdomain Controls Up-regulation of Neuronal Nicotinic Acetylcholine Receptors by Nicotine. Journal of Biological Chemistry, 2004, 279, 18767-18775.	3.4	73

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109	The Molecular Pages of the mesotelencephalic dopamine consortium (DopaNet). BMC Bioinformatics, 2004, 5, 174.	2.6	4
110	An H-bond between two residues from different loops of the acetylcholine binding site contributes to the activation mechanism of nicotinic receptors. EMBO Journal, 2003, 22, 1990-2003.	7.8	54
111	Localization of [3H]nicotine, [3H]cytisine, [3H]epibatidine, and [125I]±-bungarotoxin binding sites in the brain of Macaca mulatta. Journal of Comparative Neurology, 2003, 461, 49-60.	1.6	91
112	New <i>Otx2</i> mRNA isoforms expressed in the mouse brain. Journal of Neurochemistry, 2003, 84, 840-853.	3.9	35
113	Subunit Composition of Functional Nicotinic Receptors in Dopaminergic Neurons Investigated with Knock-Out Mice. Journal of Neuroscience, 2003, 23, 7820-7829.	3.6	473
114	Experimentally based model of a complex between a snake toxin and the $\alpha 7$ nicotinic receptor. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3216-3221.	7.1	121
115	Models of the extracellular domain of the nicotinic receptors and of agonist- and Ca ²⁺ -binding sites. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3210-3215.	7.1	263
116	The diversity of subunit composition in nAChRs: Evolutionary origins, physiologic and pharmacologic consequences. Journal of Neurobiology, 2002, 53, 447-456.	3.6	371
117	The Ligand Gated Ion Channel database: an example of a sequence database in neuroscience. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 1121-1130.	4.0	33
118	LGICdb: the ligand-gated ion channel database. Nucleic Acids Research, 2001, 29, 294-295.	14.5	61
119	The Identity of Plant Glutamate Receptors. Science, 2001, 292, 1486b-1487.	12.6	175
120	Localization of nAChR subunit mRNAs in the brain of Macaca mulatta. European Journal of Neuroscience, 2000, 12, 3664-3674.	2.6	139
121	Control of neurulation by the nucleosome assembly protein-1-like 2. Nature Genetics, 2000, 25, 431-435.	21.4	78
122	Molecular model of a lattice of signalling proteins involved in bacterial chemotaxis. Nature Cell Biology, 2000, 2, 792-796.	10.3	175
123	Nicotinic Receptors at the Amino Acid Level. Annual Review of Pharmacology and Toxicology, 2000, 40, 431-458.	9.4	757
124	The ligand gated ion channel database. Nucleic Acids Research, 1999, 27, 340-342.	14.5	93
125	Reduced antinociception in mice lacking neuronal nicotinic receptor subunits. Nature, 1999, 398, 805-810.	27.8	514
126	Improved Secondary Structure Predictions for a Nicotinic Receptor Subunit: Incorporation of Solvent Accessibility and Experimental Data into a Two-Dimensional Representation. Biophysical Journal, 1999, 76, 2329-2345.	0.5	98

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127	Involvement of $\alpha 6$ nicotinic receptor subunit in nicotine-elicited locomotion, demonstrated by in vivo antisense oligonucleotide infusion. <i>NeuroReport</i> , 1999, 10, 2497-2501.	1.2	78
128	Brain nicotinic receptors: structure and regulation, role in learning and reinforcement1Published on the World Wide Web on 24 October 1997.1. <i>Brain Research Reviews</i> , 1998, 26, 198-216.	9.0	280
129	Approches thÃ©oriques et pratiques en hybridation in situ et autoradiographie rÃ©ceptorielle. <i>Annales De L'Institut Pasteur / ActualitÃ©s</i> , 1998, 9, 259-270.	0.1	0
130	Neuronal Nicotinic Receptor $\alpha 6$ Subunit mRNA is Selectively Concentrated in Catecholaminergic Nuclei of the Rat Brain. <i>European Journal of Neuroscience</i> , 1996, 8, 2428-2439.	2.6	358
131	Molecular evolution of the nicotinic acetylcholine receptor: An example of multigene family in excitable cells. <i>Journal of Molecular Evolution</i> , 1995, 40, 155-172.	1.8	378
132	Systems Biology Markup Language (SBML) Level 2: Structures and Facilities for Model Definitions. <i>Nature Precedings</i> , 0, , .	0.1	1