Samuel Bernard

List of Publications by Year
in descending order

57 papers	12,293 citations	156536 32 h-index	150775 59 g-index
61 all docs	61 docs citations	61 times ranked	18026 citing authors

#	Article	IF	Citations
1	Phenotypic noise and the cost of complexity. Evolution; International Journal of Organic Evolution, 2020, 74, 2221-2237.	1.1	9
2	The Surprising Creativity of Digital Evolution: A Collection of Anecdotes from the Evolutionary Computation and Artificial Life Research Communities. Artificial Life, 2020, 26, 274-306.	1.0	88
3	Radioprotective effects of induced astronaut torpor and advanced propulsion systems during deep space travel. Life Sciences in Space Research, 2020, 26, 105-113.	1.2	4
4	Cell generation dynamics underlying naive T-cell homeostasis in adult humans. PLoS Biology, 2019, 17, e3000383.	2.6	45
5	Adipose lipid turnover and long-term changes in body weight. Nature Medicine, 2019, 25, 1385-1389.	15.2	90
6	Dynamics of oligodendrocyte generation in multiple sclerosis. Nature, 2019, 566, 538-542.	13.7	251
7	Meningioma growth dynamics assessed by radiocarbon retrospective birth dating. EBioMedicine, 2018, 27, 176-181.	2.7	22
8	Stability Analysis of a Model of Interaction Between the Immune System and Cancer Cells in Chronic Myelogenous Leukemia. Bulletin of Mathematical Biology, 2018, 80, 1084-1110.	0.9	26
9	Long-term treatment effects in chronic myeloid leukemia. Journal of Mathematical Biology, 2017, 75, 733-758.	0.8	3
10	Impact of fat mass and distribution on lipid turnover in human adipose tissue. Nature Communications, 2017, 8, 15253.	5.8	71
11	A multiscale modelling approach for the regulation of the cell cycle by the circadian clock. Journal of Theoretical Biology, 2017, 426, 117-125.	0.8	4
12	The Lifespan and Turnover of Microglia in the Human Brain. Cell Reports, 2017, 20, 779-784.	2.9	340
13	Estimates and impact of lymphocyte division parameters from CFSE data using mathematical modelling. PLoS ONE, 2017, 12, e0179768.	1.1	4
14	Moving the Boundaries of Granulopoiesis Modelling. Bulletin of Mathematical Biology, 2016, 78, 2358-2363.	0.9	4
15	First passage times in homogeneous nucleation: Dependence on the total number of particles. Journal of Chemical Physics, 2016, 144, 034106.	1.2	13
16	Transplanted Bone Marrow-Derived Cells Contribute to Human Adipogenesis. Cell Metabolism, 2015, 22, 408-417.	7.2	75
17	Dynamics of Cell Generation and Turnover in the Human Heart. Cell, 2015, 161, 1566-1575.	13.5	923
18	A new model for the estimation of time of death from vitreous potassium levels corrected for age and temperature. Forensic Science International, 2015, 254, 158-166.	1.3	60

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19	Implication of the Autologous Immune System in <i>BCR–ABL</i> Transcript Variations in Chronic Myelogenous Leukemia Patients Treated with Imatinib. Cancer Research, 2015, 75, 4053-4062.	0.4	34
20	Optimal linear stability condition for scalar differential equations with distributed delay. Discrete and Continuous Dynamical Systems - Series B, 2015, 20, 1855-1876.	0.5	7
21	Multiscale Modeling of the Early CD8 T-Cell Immune Response in Lymph Nodes: An Integrative Study. Computation, 2014, 2, 159-181.	1.0	29
22	Modeling circadian clock–cell cycle interaction effects on cell population growth rates. Journal of Theoretical Biology, 2014, 363, 318-331.	0.8	19
23	Neurogenesis in the Striatum of the Adult Human Brain. Cell, 2014, 156, 1072-1083.	13.5	786
24	The age and genomic integrity of neurons after cortical stroke in humans. Nature Neuroscience, 2014, 17, 801-803.	7.1	108
25	Dynamics of Oligodendrocyte Generation and Myelination in the Human Brain. Cell, 2014, 159, 766-774.	13.5	374
26	A Model for Genome Size Evolution. Bulletin of Mathematical Biology, 2014, 76, 2249-2291.	0.9	12
27	Mathematical Modeling in Chronobiology. Handbook of Experimental Pharmacology, 2013, , 335-357.	0.9	18
28	Dynamics of Hippocampal Neurogenesis in Adult Humans. Cell, 2013, 153, 1219-1227.	13.5	1,523
29	Adipocyte triglyceride turnover and lipolysis in lean and overweight subjects. Journal of Lipid Research, 2013, 54, 2909-2913.	2.0	55
30	How to Build a Multiscale Model in Biology. Acta Biotheoretica, 2013, 61, 291-303.	0.7	4
31	Analysis of Radiocarbon, Stable Isotopes and DNA in Teeth to Facilitate Identification of Unknown Decedents. PLoS ONE, 2013, 8, e69597.	1.1	37
32	Cardiomyocyte Renewal in Humans. Circulation Research, 2012, 110, e17-8; author reply e19-21.	2.0	45
33	Adipocyte Triglyceride Turnover Is Independently Associated With Atherogenic Dyslipidemia. Journal of the American Heart Association, 2012, 1, e003467.	1.6	27
34	Modeling Biological Rhythms in Cell Populations. Mathematical Modelling of Natural Phenomena, 2012, 7, 107-125.	0.9	1
35	The Age of Olfactory Bulb Neurons in Humans. Neuron, 2012, 74, 634-639.	3.8	333
36	Hybrid Model of Erythropoiesis and Leukemia Treatment with Cytosine Arabinoside. SIAM Journal on Applied Mathematics, 2011, 71, 2246-2268.	0.8	24

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37	Dynamics of human adipose lipid turnover in health and metabolic disease. Nature, 2011, 478, 110-113.	13.7	319
38	Identification of cardiomyocyte nuclei and assessment of ploidy for the analysis of cell turnover. Experimental Cell Research, 2011, 317, 188-194.	1.2	144
39	Regulation of mammalian cell cycle progression in the regenerating liver. Journal of Theoretical Biology, 2011, 283, 103-112.	0.8	28
40	A mathematical model for the interpretation of nuclear bomb test derived 14C incorporation in biological systems. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1295-1298.	0.6	20
41	Tumor Growth Rate Determines the Timing of Optimal Chronomodulated Treatment Schedules. PLoS Computational Biology, 2010, 6, e1000712.	1.5	45
42	Adipocyte Turnover: Relevance to Human Adipose Tissue Morphology. Diabetes, 2010, 59, 105-109.	0.3	490
43	Evidence for Cardiomyocyte Renewal in Humans. Science, 2009, 324, 98-102.	6.0	2,679
44	Dynamics of fat cell turnover in humans. Nature, 2008, 453, 783-787.	13.7	1,914
45	Complex dynamics in the Oregonator model with linear delayed feedback. Chaos, 2008, 18, 023126.	1.0	12
46	Dynamics of Fat Cell Turnover in Humans. Obstetrical and Gynecological Survey, 2008, 63, 577-578.	0.2	3
47	Synchronization-Induced Rhythmicity of Circadian Oscillators in the Suprachiasmatic Nucleus. PLoS Computational Biology, 2007, 3, e68.	1.5	184
48	Modelling transcriptional feedback loops: the role of Gro/TLE1 in Hes1 oscillations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 1155-1170.	1.6	83
49	Cost-effective G-CSF therapy strategies for cyclical neutropenia: Mathematical modelling based hypotheses. Journal of Theoretical Biology, 2006, 238, 754-763.	0.8	48
50	Death of neuronal clusters contributes to variance of age at onset in Huntington's disease. Neurogenetics, 2006, 7, 21-25.	0.7	4
51	Why do cells cycle with a 24 hour period?. Genome Informatics, 2006, 17, 72-9.	0.4	18
52	Long Period Oscillations in aG0Model of Hematopoietic Stem Cells. SIAM Journal on Applied Dynamical Systems, 2005, 4, 312-332.	0.7	76
53	Spontaneous Synchronization of Coupled Circadian Oscillators. Biophysical Journal, 2005, 89, 120-129.	0.2	401
54	Bifurcations in a white-blood-cell production model. Comptes Rendus - Biologies, 2004, 327, 201-210.	0.1	49

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55	Oscillations in cyclical neutropenia: new evidence based on mathematical modeling. Journal of Theoretical Biology, 2003, 223, 283-298.	0.8	141
56	Analysis of Cell Kinetics Using a Cell Division Marker: Mathematical Modeling of Experimental Data. Biophysical Journal, 2003, 84, 3414-3424.	0.2	74
57	Sufficient conditions for stability of linear differential equations with distributed delay. Discrete and Continuous Dynamical Systems - Series B, 2001, 1, 233-256.	0.5	81