

Philip J Murray

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,031
citations

567281

15
h-index

794594

19
g-index

26
all docs

26
docs citations

26
times ranked

1472
citing authors

#	ARTICLE	IF	CITATIONS
1	Chaste: A test-driven approach to software development for biological modelling. Computer Physics Communications, 2009, 180, 2452-2471.	7.5	207
2	Organ-Level Quorum Sensing Directs Regeneration in Hair Stem Cell Populations. Cell, 2015, 161, 277-290.	28.9	195
3	Regenerative Hair Waves in Aging Mice and Extra-Follicular Modulators Follistatin, Dkk1, and Sfrp4. Journal of Investigative Dermatology, 2014, 134, 2086-2096.	0.7	80
4	From a discrete to a continuum model of cell dynamics in one dimension. Physical Review E, 2009, 80, 031912.	2.1	78
5	HIV-1 capsid uncoating initiates after the first strand transfer of reverse transcription. Retrovirology, 2016, 13, 58.	2.0	69
6	Modelling Spatially Regulated β -Catenin Dynamics and Invasion in Intestinal Crypts. Biophysical Journal, 2010, 99, 716-725.	0.5	66
7	The clock and wavefront model revisited. Journal of Theoretical Biology, 2011, 283, 227-238.	1.7	50
8	Spatiotemporal oscillations of Notch1, Dll1 and NICD are coordinated across the mouse PSM. Development (Cambridge), 2014, 141, 4806-4816.	2.5	50
9	Comparing a discrete and continuum model of the intestinal crypt. Physical Biology, 2011, 8, 026011.	1.8	38
10	Classifying general nonlinear force laws in cell-based models via the continuum limit. Physical Review E, 2012, 85, 021921.	2.1	33
11	<sc>CDK</sc> 1 and <sc>CDK</sc> 2 regulate <sc>NICD</sc> 1 turnover and the periodicity of the segmentation clock. EMBO Reports, 2019, 20, e46436.	4.5	32
12	Understanding hair follicle cycling: a systems approach. Current Opinion in Genetics and Development, 2012, 22, 607-612.	3.3	30
13	A balance of positive and negative regulators determines the pace of the segmentation clock. ELife, 2015, 4, e05842.	6.0	27
14	Modelling Hair Follicle Growth Dynamics as an Excitable Medium. PLoS Computational Biology, 2012, 8, e1002804.	3.2	22
15	Multiscale modelling of intestinal crypt organization and carcinogenesis. Mathematical Models and Methods in Applied Sciences, 2015, 25, 2563-2585.	3.3	21
16	Modelling Delta-Notch perturbations during zebrafish somitogenesis. Developmental Biology, 2013, 373, 407-421.	2.0	14
17	DNA double-strand break repair: a theoretical framework and its application. Journal of the Royal Society Interface, 2016, 13, 20150679.	3.4	11
18	Auto-Regulation of Transcription and Translation: Oscillations, Excitability and Intermittency. Biomolecules, 2021, 11, 1566.	4.0	2

#	ARTICLE	IF	CITATIONS
19	Modelling Oscillator Synchronisation During Vertebrate Axis Segmentation. Springer Proceedings in Mathematics, 2013, , 95-105.	0.5	2
20	Cell cycle regulation of oscillations yields coupling of growth and form in a computational model of the presomitic mesoderm. Journal of Theoretical Biology, 2019, 481, 75-83.	1.7	1
21	Temporal Ordering of Dynamic Expression Data from Detailed Spatial Expression Maps. Journal of Visualized Experiments, 2017, , .	0.3	0