

Aryeh Warmflash

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,994
citations

304743

22
h-index

233421

45
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all docs

61
docs citations

61
times ranked

3643
citing authors

#	ARTICLE	IF	CITATIONS
1	Nodal is a short-range morphogen with activity that spreads through a relay mechanism in human gastruloids. <i>Nature Communications</i> , 2022, 13, 497.	12.8	29
2	cytoNet: Spatiotemporal network analysis of cell communities. <i>PLoS Computational Biology</i> , 2022, 18, e1009846.	3.2	3
3	Stem-cell-based embryo models for fundamental research and translation. <i>Nature Materials</i> , 2021, 20, 132-144.	27.5	86
4	Roadmap for the multiscale coupling of biochemical and mechanical signals during development. <i>Physical Biology</i> , 2021, 18, 041501.	1.8	29
5	Stem cell-based models of embryos: The need for improved naming conventions. <i>Stem Cell Reports</i> , 2021, 16, 1014-1020.	4.8	15
6	Self-organized signaling in stem cell models of embryos. <i>Stem Cell Reports</i> , 2021, 16, 1065-1077.	4.8	13
7	Quantifying cell transitions in <i>C. elegans</i> with data-fitted landscape models. <i>PLoS Computational Biology</i> , 2021, 17, e1009034.	3.2	12
8	Rapid fabrication of hydrogel micropatterns by projection stereolithography for studying self-organized developmental patterning. <i>PLoS ONE</i> , 2021, 16, e0245634.	2.5	4
9	BMP-treated human embryonic stem cells transcriptionally resemble amnion cells in the monkey embryo. <i>Biology Open</i> , 2021, 10, .	1.2	30
10	Conservation of Epithelial-to-Mesenchymal Transition Process in Neural Crest Cells and Metastatic Cancer. <i>Cells Tissues Organs</i> , 2021, 210, 151-172.	2.3	5
11	Human neural tube morphogenesis in vitro by geometric constraints. <i>Nature</i> , 2021, 599, 268-272.	27.8	107
12	Fate-Patterning of 2D Gastruloids and Ectodermal Colonies Using Micropatterned Human Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , 2021, 2258, 119-130.	0.9	3
13	Reaction-diffusion models for morphological patterning of hESCs. <i>Journal of Mathematical Biology</i> , 2021, 83, 55.	1.9	0
14	Mesenchymal-epithelial transition regulates initiation of pluripotency exit before gastrulation. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	20
15	Insights into mammalian morphogen dynamics from embryonic stem cell systems. <i>Current Topics in Developmental Biology</i> , 2020, 137, 279-305.	2.2	16
16	A novel self-organizing embryonic stem cell system reveals signaling logic underlying the patterning of human ectoderm. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	44
17	Dissecting the dynamics of signaling events in the BMP, WNT, and NODAL cascade during self-organized fate patterning in human gastruloids. <i>PLoS Biology</i> , 2019, 17, e3000498.	5.6	129
18	Synergy with TGF β ligands switches WNT pathway dynamics from transient to sustained during human pluripotent cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4989-4998.	7.1	47

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19	S-MiRAGE: A Quantitative, Secreted RNA-Based Reporter of Gene Expression and Cell Persistence. <i>ACS Synthetic Biology</i> , 2019, 8, 25-33.	3.8	0
20	Rapid changes in morphogen concentration control self-organized patterning in human embryonic stem cells. <i>ELife</i> , 2019, 8, .	6.0	84
21	Modeling Mammalian Gastrulation With Embryonic Stem Cells. <i>Current Topics in Developmental Biology</i> , 2018, 129, 1-23.	2.2	23
22	Synthetic Embryos: Windows into Mammalian Development. <i>Cell Stem Cell</i> , 2017, 20, 581-582.	11.1	6
23	Morphogen and community effects determine cell fates in response to BMP4 signaling in human embryonic stem cells. <i>Development (Cambridge)</i> , 2017, 144, 3042-3053.	2.5	60
24	Pluripotent stem cells as a model for embryonic patterning: From signaling dynamics to spatial organization in a dish. <i>Developmental Dynamics</i> , 2016, 245, 976-990.	1.8	27
25	Self-organization of human embryonic stem cells on micropatterns. <i>Nature Protocols</i> , 2016, 11, 2223-2232.	12.0	119
26	Endothelial cells decode VEGF-mediated Ca ²⁺ signaling patterns to produce distinct functional responses. <i>Science Signaling</i> , 2016, 9, ra20.	3.6	85
27	Coco is a dual-activity modulator of TGF- β 2 signaling. <i>Development (Cambridge)</i> , 2015, 142, 2678-85.	2.5	12
28	Comment on "Controlling long-term signaling: Receptor dynamics determine attenuation and refractory behavior of the TGF- β 2 pathway" Smad2/3 activity does not predict the dynamics of transcription. <i>Science Signaling</i> , 2014, 7, lc1.	3.6	0
29	Encoding of Temporal Signals by the TGF- β 2 Pathway and Implications for Embryonic Patterning. <i>Developmental Cell</i> , 2014, 30, 334-342.	7.0	101
30	A method to recapitulate early embryonic spatial patterning in human embryonic stem cells. <i>Nature Methods</i> , 2014, 11, 847-854.	19.0	680
31	SMAD7 Directly Converts Human Embryonic Stem Cells to Telencephalic Fate by a Default Mechanism. <i>Stem Cells</i> , 2013, 31, 35-47.	3.2	35
32	Signaling dynamics and embryonic development. <i>Cell Cycle</i> , 2012, 11, 3529-3530.	2.6	3
33	Dynamics of TGF- β 2 signaling reveal adaptive and pulsatile behaviors reflected in the nuclear localization of transcription factor Smad4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1947-56.	7.1	89
34	Pareto evolution of gene networks: an algorithm to optimize multiple fitness objectives. <i>Physical Biology</i> , 2012, 9, 056001.	1.8	30
35	The molecular circuitry underlying pluripotency in embryonic stem cells. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012, 4, 443-456.	6.6	12
36	An incoherent regulatory network architecture that orchestrates B cell diversification in response to antigen signaling. <i>Molecular Systems Biology</i> , 2011, 7, 495.	7.2	111

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37	Field theoretic treatment of an effective action for a model of catalyzed autoamplification. Physical Review E, 2010, 81, 011112.	2.1	1
38	Nonequilibrium umbrella sampling in spaces of many order parameters. Journal of Chemical Physics, 2009, 130, 074104.	3.0	68
39	Critical behavior of a model for catalyzed autoamplification. Journal of Chemical Physics, 2009, 130, 134906.	3.0	4
40	Separating forward and backward pathways in nonequilibrium umbrella sampling. Journal of Chemical Physics, 2009, 131, 154104.	3.0	70
41	How noise statistics impact models of enzyme cycles. Journal of Chemical Physics, 2008, 128, 225101.	3.0	9
42	Signatures of combinatorial regulation in intrinsic biological noise. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17262-17267.	7.1	35
43	Umbrella sampling for nonequilibrium processes. Journal of Chemical Physics, 2007, 127, 154112.	3.0	110
44	Multilineage Transcriptional Priming and Determination of Alternate Hematopoietic Cell Fates. Cell, 2006, 126, 755-766.	28.9	572
45	A Model for TCR Gene Segment Use. Journal of Immunology, 2006, 177, 3857-3864.	0.8	16
46	Control of Genotypic Allelic Inclusion through TCR Surface Expression. Journal of Immunology, 2005, 175, 6412-6419.	0.8	3
47	Modeling gene regulatory networks for cell fate specification. , 0, , 121-154.		5