

Julio M Belmonte

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,270
citations

759233

12
h-index

794594

19
g-index

26
all docs

26
docs citations

26
times ranked

1921
citing authors

#	ARTICLE	IF	CITATIONS
1	A mechanical model of early somite segmentation. <i>IScience</i> , 2021, 24, 102317.	4.1	10
2	Mechanical competition alters the cellular interpretation of an endogenous genetic program. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	20
3	Plastin and spectrin cooperate to stabilize the actomyosin cortex during cytokinesis. <i>Current Biology</i> , 2021, 31, 5415-5428.e10.	3.9	14
4	CompuCell3D Simulations Reproduce Mesenchymal Cell Migration on Flat Substrates. <i>Biophysical Journal</i> , 2020, 118, 2801-2815.	0.5	20
5	Parameterizing cell movement when the instantaneous cell migration velocity is ill-defined. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 550, 124493.	2.6	7
6	Polarity sorting drives remodeling of actin-myosin networks. <i>Journal of Cell Science</i> , 2018, 132, .	2.0	50
7	Fibroblast state switching orchestrates dermal maturation and wound healing. <i>Molecular Systems Biology</i> , 2018, 14, e8174.	7.2	113
8	A disassembly-driven mechanism explains F-actin-mediated chromosome transport in starfish oocytes. <i>ELife</i> , 2018, 7, .	6.0	26
9	A Notch positive feedback in the intestinal stem cell niche is essential for stem cell self-renewal. <i>Molecular Systems Biology</i> , 2017, 13, 927.	7.2	44
10	A theory that predicts behaviors of disordered cytoskeletal networks. <i>Molecular Systems Biology</i> , 2017, 13, 941.	7.2	100
11	Virtual-tissue computer simulations define the roles of cell adhesion and proliferation in the onset of kidney cystic disease. <i>Molecular Biology of the Cell</i> , 2016, 27, 3673-3685.	2.1	35
12	Filopodial-Tension Model of Convergent-Extension of Tissues. <i>PLoS Computational Biology</i> , 2016, 12, e1004952.	3.2	24
13	A Liver-Centric Multiscale Modeling Framework for Xenobiotics. <i>PLoS ONE</i> , 2016, 11, e0162428.	2.5	44
14	Large-scale microtubule networks contract quite well. <i>ELife</i> , 2016, 5, .	6.0	5
15	3D simulations of wet foam coarsening evidence a self similar growth regime. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 473, 109-114.	4.7	10
16	Somites Without a Clock. <i>Science</i> , 2014, 343, 791-795.	12.6	125
17	Multiscale modeling goes out on a limb: in silico simulations of developmental mechanisms shared between somitogenesis and the developing embryonic avian limb bud. <i>FASEB Journal</i> , 2013, 27, 964.1.	0.5	0
18	Multi-Scale Modeling of Tissues Using CompuCell3D. <i>Methods in Cell Biology</i> , 2012, 110, 325-366.	1.1	415

#	ARTICLE	IF	CITATIONS
19	A Multi-cell, Multi-scale Model of Vertebrate Segmentation and Somite Formation. PLoS Computational Biology, 2011, 7, e1002155.	3.2	106
20	Self-Propelled Particle Model for Cell-Sorting Phenomena. Physical Review Letters, 2008, 100, 248702.	7.8	91