

# Julio M Belmonte

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4462176/publications.pdf>

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	Multi-Scale Modeling of Tissues Using CompuCell3D. <i>Methods in Cell Biology</i> , 2012, 110, 325-366.	1.1	415
2	Somites Without a Clock. <i>Science</i> , 2014, 343, 791-795.	12.6	125
3	Fibroblast state switching orchestrates dermal maturation and wound healing. <i>Molecular Systems Biology</i> , 2018, 14, e8174.	7.2	113
4	A Multi-cell, Multi-scale Model of Vertebrate Segmentation and Somite Formation. <i>PLoS Computational Biology</i> , 2011, 7, e1002155.	3.2	106
5	A theory that predicts behaviors of disordered cytoskeletal networks. <i>Molecular Systems Biology</i> , 2017, 13, 941.	7.2	100
6	Self-Propelled Particle Model for Cell-Sorting Phenomena. <i>Physical Review Letters</i> , 2008, 100, 248702.	7.8	91
7	Polarity sorting drives remodeling of actin-myosin networks. <i>Journal of Cell Science</i> , 2018, 132, .	2.0	50
8	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
9	A Liver-Centric Multiscale Modeling Framework for Xenobiotics. <i>PLoS ONE</i> , 2016, 11, e0162428.	2.5	44
10	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
11	A disassembly-driven mechanism explains F-actin-mediated chromosome transport in starfish oocytes. <i>ELife</i> , 2018, 7, .	6.0	26
12	Filopodial-Tension Model of Convergent-Extension of Tissues. <i>PLoS Computational Biology</i> , 2016, 12, e1004952.	3.2	24
13	CompuCell3D Simulations Reproduce Mesenchymal Cell Migration on Flat Substrates. <i>Biophysical Journal</i> , 2020, 118, 2801-2815.	0.5	20
14	Mechanical competition alters the cellular interpretation of an endogenous genetic program. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	20
15	Plastin and spectrin cooperate to stabilize the actomyosin cortex during cytokinesis. <i>Current Biology</i> , 2021, 31, 5415-5428.e10.	3.9	14
16	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
17	A mechanical model of early somite segmentation. <i>IScience</i> , 2021, 24, 102317.	4.1	10
18	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

#	ARTICLE	IF	CITATIONS
19	Large-scale microtubule networks contract quite well. ELife, 2016, 5, .	6.0	5
20	Multiscale modeling goes out on a limb: in silico simulations of developmental mechanisms shared between somitogenesis and the developing embryonic avian limb bud. FASEB Journal, 2013, 27, 964.1.	0.5	0