

Edwin M Munro

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

3,492
citations

25
h-index

47
g-index

47
ext. papers

4,168
ext. citations

9.8
avg, IF

5.62
L-index

#	Paper	IF	Citations
44	The segment polarity network is a robust developmental module. <i>Nature</i> , 2000 , 406, 188-92	50.4	927
43	Cortical flows powered by asymmetrical contraction transport PAR proteins to establish and maintain anterior-posterior polarity in the early <i>C. elegans</i> embryo. <i>Developmental Cell</i> , 2004 , 7, 413-24	10.2	508
42	Force generation, transmission, and integration during cell and tissue morphogenesis. <i>Annual Review of Cell and Developmental Biology</i> , 2011 , 27, 157-84	12.6	380
41	A self-organized biomechanical network drives shape changes during tissue morphogenesis. <i>Nature</i> , 2015 , 524, 351-5	50.4	245
40	Sequential activation of apical and basolateral contractility drives ascidian endoderm invagination. <i>Current Biology</i> , 2010 , 20, 1499-510	6.3	157
39	<i>C. elegans</i> PAR-3 and PAR-6 are required for apicobasal asymmetries associated with cell adhesion and gastrulation. <i>Development (Cambridge)</i> , 2003 , 130, 5339-50	6.6	142
38	Ascidian prickle regulates both mediolateral and anterior-posterior cell polarity of notochord cells. <i>Current Biology</i> , 2005 , 15, 79-85	6.3	134
37	PAR proteins and the cytoskeleton: a marriage of equals. <i>Current Opinion in Cell Biology</i> , 2006 , 18, 86-94	9	90
36	Cellular symmetry breaking during <i>Caenorhabditis elegans</i> development. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009 , 1, a003400	10.2	77
35	Sequential contraction and exchange of apical junctions drives zippering and neural tube closure in a simple chordate. <i>Developmental Cell</i> , 2015 , 32, 241-55	10.2	75
34	The PAR proteins: from molecular circuits to dynamic self-stabilizing cell polarity. <i>Development (Cambridge)</i> , 2017 , 144, 3405-3416	6.6	70
33	Excitable RhoA dynamics drive pulsed contractions in the early embryo. <i>Journal of Cell Biology</i> , 2018 , 217, 4230-4252	7.3	65
32	Genetic induction and mechanochemical propagation of a morphogenetic wave. <i>Nature</i> , 2019 , 572, 467-473	50.4	59
31	Polarized basolateral cell motility underlies invagination and convergent extension of the ascidian notochord. <i>Development (Cambridge)</i> , 2002 , 129, 13-24	6.6	58
30	Single-molecule analysis of cell surface dynamics in <i>Caenorhabditis elegans</i> embryos. <i>Nature Methods</i> , 2014 , 11, 677-82	21.6	56
29	Dynamic Opposition of Clustered Proteins Stabilizes Cortical Polarity in the <i>C. elegans</i> Zygote. <i>Developmental Cell</i> , 2015 , 35, 131-42	10.2	47
28	FGF3 in the floor plate directs notochord convergent extension in the <i>Ciona</i> tadpole. <i>Development (Cambridge)</i> , 2009 , 136, 23-8	6.6	46

27	Isoforms Confer Characteristic Force Generation and Mechanosensation by Myosin II Filaments. <i>Biophysical Journal</i> , 2015 , 108, 1997-2006	2.9	43
26	PAR-3 oligomerization may provide an actin-independent mechanism to maintain distinct par protein domains in the early <i>Caenorhabditis elegans</i> embryo. <i>Biophysical Journal</i> , 2011 , 101, 1412-22	2.9	42
25	RhoA Mediates Epithelial Cell Shape Changes via Mechanosensitive Endocytosis. <i>Developmental Cell</i> , 2020 , 52, 152-166.e5	10.2	38
24	Cellular morphogenesis in ascidians: how to shape a simple tadpole. <i>Current Opinion in Genetics and Development</i> , 2006 , 16, 399-405	4.9	36
23	Rapid diffusion-state switching underlies stable cytoplasmic gradients in the zygote. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8440-E8449	11.5	33
22	Mechanosensitive Junction Remodeling Promotes Robust Epithelial Morphogenesis. <i>Biophysical Journal</i> , 2019 , 117, 1739-1750	2.9	28
21	Filament turnover tunes both force generation and dissipation to control long-range flows in a model actomyosin cortex. <i>PLoS Computational Biology</i> , 2017 , 13, e1005811	5	27
20	Morphogenetic pattern formation during ascidian notochord formation is regulative and highly robust. <i>Development (Cambridge)</i> , 2002 , 129, 1-12	6.6	26
19	Differential Expression of a Classic Cadherin Directs Tissue-Level Contractile Asymmetry during Neural Tube Closure. <i>Developmental Cell</i> , 2019 , 51, 158-172.e4	10.2	13
18	Protein Clustering Shapes Polarity Protein Gradients. <i>Developmental Cell</i> , 2017 , 42, 309-311	10.2	10
17	Bond flexibility and low valence promote finite clusters of self-aggregating particles. <i>Physical Review Letters</i> , 2012 , 109, 078101	7.4	8
16	Dynamic interplay of cell fate, polarity and force generation in ascidian embryos. <i>Current Opinion in Genetics and Development</i> , 2018 , 51, 67-77	4.9	7
15	The Dynamics of P Granule Liquid Droplets Are Regulated by the Germline RNA Helicase GLH-1 via Its ATP Hydrolysis Cycle. <i>Genetics</i> , 2020 , 215, 421-434	4	7
14	Actin bundle architecture and mechanics regulate myosin II force generation. <i>Biophysical Journal</i> , 2021 , 120, 1957-1970	2.9	6
13	Clustering of low-valence particles: structure and kinetics. <i>Physical Review E</i> , 2014 , 90, 022301	2.4	5
12	Roadmap for the multiscale coupling of biochemical and mechanical signals during development. <i>Physical Biology</i> , 2021 , 18,	3	5
11	Filament-guided filament assembly provides structural memory of filament alignment during cytokinesis. <i>Developmental Cell</i> , 2021 , 56, 2486-2500.e6	10.2	5
10	Asymmetric cell division: a CAB driver for spindle movements. <i>Current Biology</i> , 2007 , 17, R639-41	6.3	4

9	Excitable RhoA dynamics drive pulsed contractions in the early <i>C. elegans</i> embryo		4
8	Apical Relaxation during Mitotic Rounding Promotes Tension-Oriented Cell Division. <i>Developmental Cell</i> , 2020 , 55, 695-706.e4	10.2	4
7	Existing actin filaments orient new filament growth to provide structural memory of filament alignment during cytokinesis		2
6	Anillin Puts RhoA in Touch with PIP2. <i>Developmental Cell</i> , 2019 , 49, 819-820	10.2	1
5	Differential expression and homotypic enrichment of a classic Cadherin directs tissue-level contractile asymmetry during neural tube closure		1
4	Mechanosensitive junction remodelling promotes robust epithelial morphogenesis		1
3	Modulating RhoA effectors induces transitions to oscillatory and more wavelike RhoA dynamics in zygotes.. <i>Molecular Biology of the Cell</i> , 2022 , mbcE21110542	3.5	0
2	Pulsatile contractions and pattern formation in excitable actomyosin cortex.. <i>PLoS Computational Biology</i> , 2022 , 18, e1009981	5	0
1	How par proteins and a cortical actomyosin network conspire to polarize the worm egg. <i>FASEB Journal</i> , 2007 , 21, A97	0.9	