

# Edwin M Munro

## List of Publications by Year in Descending Order

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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	Modulating RhoA effectors induces transitions to oscillatory and more wavelike RhoA dynamics in zygotes.. <i>Molecular Biology of the Cell</i> , <b>2022</b> , mbcE21110542	3.5	0
43	Pulsatile contractions and pattern formation in excitable actomyosin cortex.. <i>PLoS Computational Biology</i> , <b>2022</b> , 18, e1009981	5	0
42	Roadmap for the multiscale coupling of biochemical and mechanical signals during development. <i>Physical Biology</i> , <b>2021</b> , 18,	3	5
41	Actin bundle architecture and mechanics regulate myosin II force generation. <i>Biophysical Journal</i> , <b>2021</b> , 120, 1957-1970	2.9	6
40	Filament-guided filament assembly provides structural memory of filament alignment during cytokinesis. <i>Developmental Cell</i> , <b>2021</b> , 56, 2486-2500.e6	10.2	5
39	RhoA Mediates Epithelial Cell Shape Changes via Mechanosensitive Endocytosis. <i>Developmental Cell</i> , <b>2020</b> , 52, 152-166.e5	10.2	38
38	Apical Relaxation during Mitotic Rounding Promotes Tension-Oriented Cell Division. <i>Developmental Cell</i> , <b>2020</b> , 55, 695-706.e4	10.2	4
37	The Dynamics of P Granule Liquid Droplets Are Regulated by the Germline RNA Helicase GLH-1 via Its ATP Hydrolysis Cycle. <i>Genetics</i> , <b>2020</b> , 215, 421-434	4	7
36	Genetic induction and mechanochemical propagation of a morphogenetic wave. <i>Nature</i> , <b>2019</b> , 572, 467-474	57.4	59
35	Anillin Puts RhoA in Touch with PIP2. <i>Developmental Cell</i> , <b>2019</b> , 49, 819-820	10.2	1
34	Differential Expression of a Classic Cadherin Directs Tissue-Level Contractile Asymmetry during Neural Tube Closure. <i>Developmental Cell</i> , <b>2019</b> , 51, 158-172.e4	10.2	13
33	Mechanosensitive Junction Remodeling Promotes Robust Epithelial Morphogenesis. <i>Biophysical Journal</i> , <b>2019</b> , 117, 1739-1750	2.9	28
32	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> , <b>2018</b> , 115, E8440-E8449	11.5	33
31	Dynamic interplay of cell fate, polarity and force generation in ascidian embryos. <i>Current Opinion in Genetics and Development</i> , <b>2018</b> , 51, 67-77	4.9	7
30	Excitable RhoA dynamics drive pulsed contractions in the early embryo. <i>Journal of Cell Biology</i> , <b>2018</b> , 217, 4230-4252	7.3	65
29	The PAR proteins: from molecular circuits to dynamic self-stabilizing cell polarity. <i>Development (Cambridge)</i> , <b>2017</b> , 144, 3405-3416	6.6	70
28	Filament turnover tunes both force generation and dissipation to control long-range flows in a model actomyosin cortex. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005811	5	27

27	Protein Clustering Shapes Polarity Protein Gradients. <i>Developmental Cell</i> , <b>2017</b> , 42, 309-311	10.2	10
26	A self-organized biomechanical network drives shape changes during tissue morphogenesis. <i>Nature</i> , <b>2015</b> , 524, 351-5	50.4	245
25	Isoforms Confer Characteristic Force Generation and Mechanosensation by Myosin II Filaments. <i>Biophysical Journal</i> , <b>2015</b> , 108, 1997-2006	2.9	43
24	Dynamic Opposition of Clustered Proteins Stabilizes Cortical Polarity in the <i>C. elegans</i> Zygote. <i>Developmental Cell</i> , <b>2015</b> , 35, 131-42	10.2	47
23	Sequential contraction and exchange of apical junctions drives zippering and neural tube closure in a simple chordate. <i>Developmental Cell</i> , <b>2015</b> , 32, 241-55	10.2	75
22	Single-molecule analysis of cell surface dynamics in <i>Caenorhabditis elegans</i> embryos. <i>Nature Methods</i> , <b>2014</b> , 11, 677-82	21.6	56
21	Clustering of low-valence particles: structure and kinetics. <i>Physical Review E</i> , <b>2014</b> , 90, 022301	2.4	5
20	Bond flexibility and low valence promote finite clusters of self-aggregating particles. <i>Physical Review Letters</i> , <b>2012</b> , 109, 078101	7.4	8
19	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> , <b>2011</b> , 101, 1412-22	2.9	42
18	Force generation, transmission, and integration during cell and tissue morphogenesis. <i>Annual Review of Cell and Developmental Biology</i> , <b>2011</b> , 27, 157-84	12.6	380
17	Sequential activation of apical and basolateral contractility drives ascidian endoderm invagination. <i>Current Biology</i> , <b>2010</b> , 20, 1499-510	6.3	157
16	Cellular symmetry breaking during <i>Caenorhabditis elegans</i> development. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2009</b> , 1, a003400	10.2	77
15	FGF3 in the floor plate directs notochord convergent extension in the <i>Ciona</i> tadpole. <i>Development (Cambridge)</i> , <b>2009</b> , 136, 23-8	6.6	46
14	Asymmetric cell division: a CAB driver for spindle movements. <i>Current Biology</i> , <b>2007</b> , 17, R639-41	6.3	4
13	How par proteins and a cortical actomyosin network conspire to polarize the worm egg. <i>FASEB Journal</i> , <b>2007</b> , 21, A97	0.9	
12	PAR proteins and the cytoskeleton: a marriage of equals. <i>Current Opinion in Cell Biology</i> , <b>2006</b> , 18, 86-94	9	90
11	Cellular morphogenesis in ascidians: how to shape a simple tadpole. <i>Current Opinion in Genetics and Development</i> , <b>2006</b> , 16, 399-405	4.9	36
10	Ascidian prickle regulates both mediolateral and anterior-posterior cell polarity of notochord cells. <i>Current Biology</i> , <b>2005</b> , 15, 79-85	6.3	134

9	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> , <b>2004</b> , 7, 413-24	10.2	508
8	<i>C. elegans</i> PAR-3 and PAR-6 are required for apicobasal asymmetries associated with cell adhesion and gastrulation. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 5339-50	6.6	142
7	Morphogenetic pattern formation during ascidian notochord formation is regulative and highly robust. <i>Development (Cambridge)</i> , <b>2002</b> , 129, 1-12	6.6	26
6	Polarized basolateral cell motility underlies invagination and convergent extension of the ascidian notochord. <i>Development (Cambridge)</i> , <b>2002</b> , 129, 13-24	6.6	58
5	The segment polarity network is a robust developmental module. <i>Nature</i> , <b>2000</b> , 406, 188-92	50.4	927
4	Existing actin filaments orient new filament growth to provide structural memory of filament alignment during cytokinesis		2
3	Differential expression and homotypic enrichment of a classic Cadherin directs tissue-level contractile asymmetry during neural tube closure		1
2	Mechanosensitive junction remodelling promotes robust epithelial morphogenesis		1
1	Excitable RhoA dynamics drive pulsed contractions in the early <i>C. elegans</i> embryo		4