

Matthew C Gibson

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,750
citations

257450

24
h-index

243625

44
g-index

61
all docs

61
docs citations

61
times ranked

3170
citing authors

#	ARTICLE	IF	CITATIONS
1	The emergence of geometric order in proliferating metazoan epithelia. <i>Nature</i> , 2006, 442, 1038-1041.	27.8	380
2	Extrusion and Death of DPP/BMP-Compromised Epithelial Cells in the Developing <i>Drosophila</i> Wing. <i>Science</i> , 2005, 307, 1785-1789.	12.6	182
3	Control of the Mitotic Cleavage Plane by Local Epithelial Topology. <i>Cell</i> , 2011, 144, 427-438.	28.9	173
4	Epithelial junctions maintain tissue architecture by directing planar spindle orientation. <i>Nature</i> , 2013, 500, 359-362.	27.8	168
5	Non-model model organisms. <i>BMC Biology</i> , 2017, 15, 55.	3.8	164
6	TALEN and CRISPR/Cas9-mediated genome editing in the early-branching metazoan <i>Nematostella vectensis</i> . <i>Nature Communications</i> , 2014, 5, 5486.	12.8	137
7	Interkinetic Nuclear Migration Is a Broadly Conserved Feature of Cell Division in Pseudostratified Epithelia. <i>Current Biology</i> , 2011, 21, 485-491.	3.9	131
8	An axial Hox code controls tissue segmentation and body patterning in <i>Nematostella vectensis</i> . <i>Science</i> , 2018, 361, 1377-1380.	12.6	121
9	Apicobasal polarization: epithelial form and function. <i>Current Opinion in Cell Biology</i> , 2003, 15, 747-752.	5.4	109
10	Peripodial Cells Regulate Proliferation and Patterning of <i>Drosophila</i> Imaginal Discs. <i>Cell</i> , 2000, 103, 343-350.	28.9	104
11	Analysis of twenty-four Gal4 lines in <i>Drosophila melanogaster</i> . <i>Genesis</i> , 2002, 34, 51-57.	1.6	102
12	Cell division and the maintenance of epithelial order. <i>Journal of Cell Biology</i> , 2014, 207, 181-188.	5.2	96
13	Decapentaplegic and growth control in the developing <i>Drosophila</i> wing. <i>Nature</i> , 2015, 527, 375-378.	27.8	87
14	Luminal Transmission of Decapentaplegic in <i>Drosophila</i> Imaginal Discs. <i>Developmental Cell</i> , 2002, 3, 451-460.	7.0	86
15	Chapter 4 Cell Topology, Geometry, and Morphogenesis in Proliferating Epithelia. <i>Current Topics in Developmental Biology</i> , 2009, 89, 87-114.	2.2	75
16	Electroporation of short hairpin RNAs for rapid and efficient gene knockdown in the starlet sea anemone, <i>Nematostella vectensis</i> . <i>Developmental Biology</i> , 2019, 448, 7-15.	2.0	55
17	Modeling and Inferring Cleavage Patterns in Proliferating Epithelia. <i>PLoS Computational Biology</i> , 2009, 5, e1000412.	3.2	49
18	Molecular Evolution of the Yap/Yorkie Proto-Oncogene and Elucidation of Its Core Transcriptional Program. <i>Molecular Biology and Evolution</i> , 2014, 31, 1375-1390.	8.9	47

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19	<i>Drosophila</i> peripodial cells, more than meets the eye?. <i>BioEssays</i> , 2001, 23, 691-697.	2.5	42
20	Feedback regulation of <i>Drosophila</i> BMP signaling by the novel extracellular protein Larval Translucida. <i>Development (Cambridge)</i> , 2011, 138, 715-724.	2.5	40
21	Mechanisms of tentacle morphogenesis in the sea anemone <i>Nematostella vectensis</i> . <i>Development (Cambridge)</i> , 2013, 140, 2212-2223.	2.5	36
22	Morphogen transport: theoretical and experimental controversies. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2015, 4, 99-112.	5.9	34
23	Cell-Cycle-Coupled Oscillations in Apical Polarity and Intercellular Contact Maintain Order in Embryonic Epithelia. <i>Current Biology</i> , 2017, 27, 1381-1386.	3.9	31
24	Epithelial topology. <i>BioEssays</i> , 2008, 30, 260-266.	2.5	28
25	An adaptable chromosome preparation methodology for use in invertebrate research organisms. <i>BMC Biology</i> , 2018, 16, 25.	3.8	26
26	Junctional tumor suppressors interact with 14-3-3 proteins to control planar spindle alignment. <i>Journal of Cell Biology</i> , 2019, 218, 1824-1838.	5.2	25
27	Identification and In Vivo Characterization of NvFP-7R, a Developmentally Regulated Red Fluorescent Protein of <i>Nematostella vectensis</i> . <i>PLoS ONE</i> , 2010, 5, e11807.	2.5	23
28	A differential requirement for SUMOylation in proliferating and non-proliferating cells during <i>Drosophila</i> development. <i>Development (Cambridge)</i> , 2012, 139, 2751-2762.	2.5	21
29	Cell-Size Pleomorphism Drives Aberrant Clone Dispersal in Proliferating Epithelia. <i>Developmental Cell</i> , 2019, 51, 49-61.e4.	7.0	20
30	Feeding-dependent tentacle development in the sea anemone <i>Nematostella vectensis</i> . <i>Nature Communications</i> , 2020, 11, 4399.	12.8	19
31	Functional Genomic Analysis of the Periodic Transcriptome in the Developing <i>Drosophila</i> Wing. <i>Developmental Cell</i> , 2014, 29, 112-127.	7.0	17
32	Hedgehog signaling is required for endomesodermal patterning and germ cell development in the sea anemone <i>Nematostella vectensis</i> . <i>ELife</i> , 2020, 9, .	6.0	11
33	The architecture and operating mechanism of a cnidarian stinging organelle. <i>Nature Communications</i> , 2022, 13, .	12.8	11
34	Wampa is a dynein subunit required for axonemal assembly and male fertility in <i>Drosophila</i> . <i>Developmental Biology</i> , 2020, 463, 158-168.	2.0	10
35	Plasticity in parental effects confers rapid larval thermal tolerance in the estuarine anemone <i>Nematostella vectensis</i> . <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	10
36	Bicoid by the Numbers: Quantifying a Morphogen Gradient. <i>Cell</i> , 2007, 130, 14-16.	28.9	8

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37	Epithelial Cell Division: Aurora Kicks Lgl to the Cytoplasmic Curb. <i>Current Biology</i> , 2015, 25, R43-R45.	3.9	7
38	Somatic clones heterozygous for recessive disease alleles of BMPR1A exhibit unexpected phenotypes in <i>Drosophila</i> . <i>ELife</i> , 2018, 7, .	6.0	6
39	On the origins of the mitotic shift in proliferating cell layers. <i>Theoretical Biology and Medical Modelling</i> , 2014, 11, 26.	2.1	5
40	Impact of cilia-related genes on mitochondrial dynamics during <i>Drosophila</i> spermatogenesis. <i>Developmental Biology</i> , 2022, 482, 17-27.	2.0	5
41	Manipulation of Gene Activity in the Regenerative Model Sea Anemone, <i>Nematostella vectensis</i> . <i>Methods in Molecular Biology</i> , 2022, 2450, 437-465.	0.9	3
42	The feedback regulator Nord controls Dpp/BMP signaling via extracellular interaction with Dally in the <i>Drosophila</i> wing. <i>Developmental Biology</i> , 2022, 488, 91-103.	2.0	3
43	Developmental Patterning: Putting the Squeeze on Mis-specified Cells. <i>Current Biology</i> , 2016, 26, R204-R206.	3.9	1
44	Epithelial integrity and cell division: Concerted cell cycle control. <i>Cell Cycle</i> , 2018, 17, 399-400.	2.6	1
45	Commentary on "Regeneration, duplication and transdetermination in fragments of the leg disc of <i>Drosophila melanogaster</i> " Schubiger, G. (1971). <i>Developmental Biology</i> , 2019, 449, 63-82.	2.0	0