

Sean G Megason

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6859910/publications.pdf>

Version: 2024-02-01

38
papers

4,317
citations

257450

24
h-index

330143

37
g-index

50
all docs

50
docs citations

50
times ranked

6527
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-cell mapping of gene expression landscapes and lineage in the zebrafish embryo. <i>Science</i> , 2018, 360, 981-987.	12.6	653
2	A mitogen gradient of dorsal midline Wnts organizes growth in the CNS. <i>Development (Cambridge)</i> , 2002, 129, 2087-2098.	2.5	600
3	The dynamics of gene expression in vertebrate embryogenesis at single-cell resolution. <i>Science</i> , 2018, 360, .	12.6	471
4	Observing the cell in its native state: Imaging subcellular dynamics in multicellular organisms. <i>Science</i> , 2018, 360, .	12.6	420
5	A mitogen gradient of dorsal midline Wnts organizes growth in the CNS. <i>Development (Cambridge)</i> , 2002, 129, 2087-98.	2.5	278
6	Cortical column and whole-brain imaging with molecular contrast and nanoscale resolution. <i>Science</i> , 2019, 363, .	12.6	277
7	Specified Neural Progenitors Sort to Form Sharp Domains after Noisy Shh Signaling. <i>Cell</i> , 2013, 153, 550-561.	28.9	147
8	Membrane dynamics of dividing cells imaged by lattice light-sheet microscopy. <i>Molecular Biology of the Cell</i> , 2016, 27, 3418-3435.	2.1	121
9	Sources of artifact in measurements of 6mA and 4mC abundance in eukaryotic genomic DNA. <i>BMC Genomics</i> , 2019, 20, 445.	2.8	120
10	In Toto Imaging of Embryogenesis with Confocal Time-Lapse Microscopy. <i>Methods in Molecular Biology</i> , 2009, 546, 317-332.	0.9	114
11	ACME: Automated Cell Morphology Extractor for Comprehensive Reconstruction of Cell Membranes. <i>PLoS Computational Biology</i> , 2012, 8, e1002780.	3.2	111
12	Interplay of Cell Shape and Division Orientation Promotes Robust Morphogenesis of Developing Epithelia. <i>Cell</i> , 2014, 159, 415-427.	28.9	108
13	Rapid positional cloning of zebrafish mutations by linkage and homozygosity mapping using whole-genome sequencing. <i>Development (Cambridge)</i> , 2012, 139, 4280-4290.	2.5	86
14	An adhesion code ensures robust pattern formation during tissue morphogenesis. <i>Science</i> , 2020, 370, 113-116.	12.6	83
15	Attenuation of Notch and Hedgehog Signaling Is Required for Fate Specification in the Spinal Cord. <i>PLoS Genetics</i> , 2012, 8, e1002762.	3.5	76
16	Mathematically guided approaches to distinguish models of periodic patterning. <i>Development (Cambridge)</i> , 2015, 142, 409-419.	2.5	72
17	Suppression of transcytosis regulates zebrafish blood-brain barrier function. <i>ELife</i> , 2019, 8, .	6.0	57
18	Improved Long-Term Imaging of Embryos with Genetically Encoded $\hat{\pm}$ -Bungarotoxin. <i>PLoS ONE</i> , 2015, 10, e0134005.	2.5	53

#	ARTICLE	IF	CITATIONS
19	Otolith tethering in the zebrafish otic vesicle requires Otogelin and $\hat{\pm}$ -Tectorin. <i>Development (Cambridge)</i> , 2015, 142, 1137-1145.	2.5	52
20	Orientation of Turing-like Patterns by Morphogen Gradients and Tissue Anisotropies. <i>Cell Systems</i> , 2015, 1, 408-416.	6.2	50
21	Size control of the inner ear via hydraulic feedback. <i>ELife</i> , 2019, 8, .	6.0	46
22	Extracellular hyaluronate pressure shaped by cellular tethers drives tissue morphogenesis. <i>Cell</i> , 2021, 184, 6313-6325.e18.	28.9	44
23	Size-reduced embryos reveal a gradient scaling based mechanism for zebrafish somite formation. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	35
24	Iterative use of nuclear receptor Nr5a2 regulates multiple stages of liver and pancreas development. <i>Developmental Biology</i> , 2016, 418, 108-123.	2.0	32
25	Lamellar projections in the endolymphatic sac act as a relief valve to regulate inner ear pressure. <i>ELife</i> , 2018, 7, .	6.0	23
26	Myc and Fgf Are Required for Zebrafish Neuromast Hair Cell Regeneration. <i>PLoS ONE</i> , 2016, 11, e0157768.	2.5	22
27	Adhesion-Based Self-Organization in Tissue Patterning. <i>Annual Review of Cell and Developmental Biology</i> , 2022, 38, 349-374.	9.4	22
28	A novel deep learning-based 3D cell segmentation framework for future image-based disease detection. <i>Scientific Reports</i> , 2022, 12, 342.	3.3	21
29	Hydrostatic pressure as a driver of cell and tissue morphogenesis. <i>Seminars in Cell and Developmental Biology</i> , 2022, 131, 134-145.	5.0	21
30	Feedback between tissue packing and neurogenesis in the zebrafish neural tube. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	20
31	Multibow: Digital Spectral Barcodes for Cell Tracing. <i>PLoS ONE</i> , 2015, 10, e0127822.	2.5	15
32	Recovery of shape and size in a developing organ pair. <i>Developmental Dynamics</i> , 2017, 246, 451-465.	1.8	14
33	Abstracting the principles of development using imaging and modeling. <i>Integrative Biology (United Tj ETQq1 1 0.784314 rgBT /Overl</i>	1.3	13
34	An efficient, scalable, and adaptable framework for solving generic systems of level-set PDEs. <i>Frontiers in Neuroinformatics</i> , 2013, 7, 35.	2.5	4
35	<sc>Singleâ€cell</sc> profiling for advancing birth defects research and prevention. <i>Birth Defects Research</i> , 2021, 113, 546-559.	1.5	4
36	Surgical Size Reduction of Zebrafish for the Study of Embryonic Pattern Scaling. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	2

#	ARTICLE	IF	CITATIONS
37	Current challenges in image analysis for in toto imaging of zebrafish. , 2011, , .		1
38	Dynamic Encoding in the Notch Pathway. Developmental Cell, 2018, 44, 411-412.	7.0	1