

# 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  | 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        |
| 2  | 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        |
| 3  | Adhesion-Based Self-Organization in Tissue Patterning. <i>Annual Review of Cell and Developmental Biology</i> , 2022, 38, 349-374.              | 9.4  | 22        |
| 4  | Single-cell profiling for advancing birth defects research and prevention. <i>Birth Defects Research</i> , 2021, 113, 546-559.                  | 1.5  | 4         |
| 5  | Extracellular hyaluronate pressure shaped by cellular tethers drives tissue morphogenesis. <i>Cell</i> , 2021, 184, 6313-6325.e18.              | 28.9 | 44        |
| 6  | An adhesion code ensures robust pattern formation during tissue morphogenesis. <i>Science</i> , 2020, 370, 113-116.                             | 12.6 | 83        |
| 7  | Sources of artifact in measurements of 6mA and 4mC abundance in eukaryotic genomic DNA. <i>BMC Genomics</i> , 2019, 20, 445.                    | 2.8  | 120       |
| 8  | Surgical Size Reduction of Zebrafish for the Study of Embryonic Pattern Scaling. <i>Journal of Visualized Experiments</i> , 2019, , .           | 0.3  | 2         |
| 9  | Cortical column and whole-brain imaging with molecular contrast and nanoscale resolution. <i>Science</i> , 2019, 363, .                         | 12.6 | 277       |
| 10 | Size control of the inner ear via hydraulic feedback. <i>ELife</i> , 2019, 8, .                                                                 | 6.0  | 46        |
| 11 | Suppression of transcytosis regulates zebrafish blood-brain barrier function. <i>ELife</i> , 2019, 8, .                                         | 6.0  | 57        |
| 12 | Dynamic Encoding in the Notch Pathway. <i>Developmental Cell</i> , 2018, 44, 411-412.                                                           | 7.0  | 1         |
| 13 | Observing the cell in its native state: Imaging subcellular dynamics in multicellular organisms. <i>Science</i> , 2018, 360, .                  | 12.6 | 420       |
| 14 | Feedback between tissue packing and neurogenesis in the zebrafish neural tube. <i>Development (Cambridge)</i> , 2018, 145, .                    | 2.5  | 20        |
| 15 | Single-cell mapping of gene expression landscapes and lineage in the zebrafish embryo. <i>Science</i> , 2018, 360, 981-987.                     | 12.6 | 653       |
| 16 | The dynamics of gene expression in vertebrate embryogenesis at single-cell resolution. <i>Science</i> , 2018, 360, .                            | 12.6 | 471       |
| 17 | Size-reduced embryos reveal a gradient scaling based mechanism for zebrafish somite formation. <i>Development (Cambridge)</i> , 2018, 145, .    | 2.5  | 35        |
| 18 | Lamellar projections in the endolymphatic sac act as a relief valve to regulate inner ear pressure. <i>ELife</i> , 2018, 7, .                   | 6.0  | 23        |

| #  | ARTICLE                                                                                                                                                                   | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Recovery of shape and size in a developing organ pair. <i>Developmental Dynamics</i> , 2017, 246, 451-465.                                                                | 1.8  | 14        |
| 20 | 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        |
| 21 | 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       |
| 22 | Myc and Fgf Are Required for Zebrafish Neuromast Hair Cell Regeneration. <i>PLoS ONE</i> , 2016, 11, e0157768.                                                            | 2.5  | 22        |
| 23 | Improved Long-Term Imaging of Embryos with Genetically Encoded $\hat{\pm}$ -Bungarotoxin. <i>PLoS ONE</i> , 2015, 10, e0134005.                                           | 2.5  | 53        |
| 24 | Orientation of Turing-like Patterns by Morphogen Gradients and Tissue Anisotropies. <i>Cell Systems</i> , 2015, 1, 408-416.                                               | 6.2  | 50        |
| 25 | Otolith tethering in the zebrafish otic vesicle requires Otogelin and $\hat{\pm}$ -Tectorin. <i>Development (Cambridge)</i> , 2015, 142, 1137-1145.                       | 2.5  | 52        |
| 26 | Mathematically guided approaches to distinguish models of periodic patterning. <i>Development (Cambridge)</i> , 2015, 142, 409-419.                                       | 2.5  | 72        |
| 27 | Abstracting the principles of development using imaging and modeling. <i>Integrative Biology (United Tj ETQq1 1 0.784314 rgBT /Overl</i>                                  | 1.3  | 13        |
| 28 | Multibow: Digital Spectral Barcodes for Cell Tracing. <i>PLoS ONE</i> , 2015, 10, e0127822.                                                                               | 2.5  | 15        |
| 29 | Interplay of Cell Shape and Division Orientation Promotes Robust Morphogenesis of Developing Epithelia. <i>Cell</i> , 2014, 159, 415-427.                                 | 28.9 | 108       |
| 30 | Specified Neural Progenitors Sort to Form Sharp Domains after Noisy Shh Signaling. <i>Cell</i> , 2013, 153, 550-561.                                                      | 28.9 | 147       |
| 31 | 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         |
| 32 | 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        |
| 33 | ACME: Automated Cell Morphology Extractor for Comprehensive Reconstruction of Cell Membranes. <i>PLoS Computational Biology</i> , 2012, 8, e1002780.                      | 3.2  | 111       |
| 34 | 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        |
| 35 | Current challenges in image analysis for in toto imaging of zebrafish. , 2011, , .                                                                                        |      | 1         |
| 36 | In Toto Imaging of Embryogenesis with Confocal Time-Lapse Microscopy. <i>Methods in Molecular Biology</i> , 2009, 546, 317-332.                                           | 0.9  | 114       |

| #  | ARTICLE                                                                                                               | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | A mitogen gradient of dorsal midline Wnts organizes growth in the CNS. Development (Cambridge), 2002, 129, 2087-2098. | 2.5 | 600       |
| 38 | A mitogen gradient of dorsal midline Wnts organizes growth in the CNS. Development (Cambridge), 2002, 129, 2087-98.   | 2.5 | 278       |