

Bob Goldstein

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/938653/publications.pdf>

Version: 2024-02-01

104
papers

8,483
citations

71102
41
h-index

56724
83
g-index

164
all docs

164
docs citations

164
times ranked

8258
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering the <i>Caenorhabditis elegans</i> genome using Cas9-triggered homologous recombination. <i>Nature Methods</i> , 2013, 10, 1028-1034.	19.0	905
2	The PAR Proteins: Fundamental Players in Animal Cell Polarization. <i>Developmental Cell</i> , 2007, 13, 609-622.	7.0	702
3	Streamlined Genome Engineering with a Self-Excising Drug Selection Cassette. <i>Genetics</i> , 2015, 200, 1035-1049.	2.9	557
4	Apical constriction: A cell shape change that can drive morphogenesis. <i>Developmental Biology</i> , 2010, 341, 5-19.	2.0	408
5	Apical constriction: themes and variations on a cellular mechanism driving morphogenesis. <i>Development (Cambridge)</i> , 2014, 141, 1987-1998.	2.5	402
6	Tardigrades Use Intrinsically Disordered Proteins to Survive Desiccation. <i>Molecular Cell</i> , 2017, 65, 975-984.e5.	9.7	302
7	Noninvasive Imaging beyond the Diffraction Limit of 3D Dynamics in Thick Fluorescent Specimens. <i>Cell</i> , 2012, 151, 1370-1385.	28.9	301
8	CRISPR-Based Methods for <i>Caenorhabditis elegans</i> Genome Engineering. <i>Genetics</i> , 2016, 202, 885-901.	2.9	258
9	Triggering a Cell Shape Change by Exploiting Preexisting Actomyosin Contractions. <i>Science</i> , 2012, 335, 1232-1235.	12.6	251
10	Induction of gut in <i>Caenorhabditis elegans</i> embryos. <i>Nature</i> , 1992, 357, 255-257.	27.8	207
11	RhoA activation during polarization and cytokinesis of the early <i>Caenorhabditis elegans</i> embryo is differentially dependent on NOP-1 and CYK-4. <i>Molecular Biology of the Cell</i> , 2012, 23, 4020-4031.	2.1	167
12	<i>C. elegans</i> PAR Proteins Function by Mobilizing and Stabilizing Asymmetrically Localized Protein Complexes. <i>Current Biology</i> , 2004, 14, 851-862.	3.9	166
13	Non-model model organisms. <i>BMC Biology</i> , 2017, 15, 55.	3.8	164
14	Wnt Signals Can Function as Positional Cues in Establishing Cell Polarity. <i>Developmental Cell</i> , 2006, 10, 391-396.	7.0	155
15	Evidence for extensive horizontal gene transfer from the draft genome of a tardigrade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15976-15981.	7.1	145
16	A Single-Cell Biochemistry Approach Reveals PAR Complex Dynamics during Cell Polarization. <i>Developmental Cell</i> , 2017, 42, 416-434.e11.	7.0	139
17	Wnt/Frizzled Signaling Controls <i>C. elegans</i> Gastrulation by Activating Actomyosin Contractility. <i>Current Biology</i> , 2006, 16, 1986-1997.	3.9	121
18	The tardigrade <i>Hypsibius dujardini</i> , a new model for studying the evolution of development. <i>Developmental Biology</i> , 2007, 312, 545-559.	2.0	119

#	ARTICLE	IF	CITATIONS
19	A Transcriptional Lineage of the Early <i>C.Âelegans</i> Embryo. <i>Developmental Cell</i> , 2016, 38, 430-444.	7.0	119
20	Using RNA interference to identify genes required for RNA interference. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4191-4196.	7.1	118
21	Ancient and Novel Small RNA Pathways Compensate for the Loss of piRNAs in Multiple Independent Nematode Lineages. <i>PLoS Biology</i> , 2015, 13, e1002061.	5.6	118
22	Comparative assessment of fluorescent proteins for in vivo imaging in an animal model system. <i>Molecular Biology of the Cell</i> , 2016, 27, 3385-3394.	2.1	108
23	Segmental expression of Pax3/7 and Engrailed homologs in tardigrade development. <i>Development Genes and Evolution</i> , 2007, 217, 421-433.	0.9	101
24	The forces that position a mitotic spindle asymmetrically are tethered until after the time of spindle assembly. <i>Journal of Cell Biology</i> , 2004, 167, 245-256.	5.2	97
25	MRCK-1 Drives Apical Constriction in <i>C.Âelegans</i> by Linking Developmental Patterning to Force Generation. <i>Current Biology</i> , 2016, 26, 2079-2089.	3.9	96
26	Control of Protein Activity and Cell Fate Specification via Light-Mediated Nuclear Translocation. <i>PLoS ONE</i> , 2015, 10, e0128443.	2.5	95
27	Mechanisms of cell positioning during <i>C. elegans</i> gastrulation. <i>Development (Cambridge)</i> , 2003, 130, 307-320.	2.5	94
28	The Future of Cell Biology: Emerging Model Organisms. <i>Trends in Cell Biology</i> , 2016, 26, 818-824.	7.9	93
29	Axis specification in animal development. <i>BioEssays</i> , 1997, 19, 105-116.	2.5	92
30	The Compact Body Plan of Tardigrades Evolved by the Loss of a Large Body Region. <i>Current Biology</i> , 2016, 26, 224-229.	3.9	91
31	An expanded auxin-inducible degron toolkit for <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2021, 217, .	2.9	88
32	PAR Proteins Regulate Microtubule Dynamics at the Cell Cortex in <i>C. elegans</i> . <i>Current Biology</i> , 2003, 13, 707-714.	3.9	87
33	A CRISPR Tagging-Based Screen Reveals Localized Players in Wnt-Directed Asymmetric Cell Division. <i>Genetics</i> , 2018, 208, 1147-1164.	2.9	75
34	Direct visualization of a native Wnt in vivo reveals that a long-range Wnt gradient forms by extracellular dispersal. <i>ELife</i> , 2018, 7, .	6.0	71
35	Optogenetic dissection of mitotic spindle positioning in vivo. <i>ELife</i> , 2018, 7, .	6.0	69
36	Cell Invasion InÂVivo via Rapid Exocytosis of a Transient Lysosome-Derived Membrane Domain. <i>Developmental Cell</i> , 2017, 43, 403-417.e10.	7.0	67

#	ARTICLE	IF	CITATIONS
37	Embryonic axis specification in nematodes: evolution of the first step in development. Current Biology, 1998, 8, 157-160.	3.9	66
38	LITE microscopy: Tilted light-sheet excitation of model organisms offers high resolution and low photobleaching. Journal of Cell Biology, 2018, 217, 1869-1882.	5.2	64
39	On the evolution of early development in the Nematoda. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 1521-1531.	4.0	60
40	Mechanisms of Desiccation Tolerance: Themes and Variations in Brine Shrimp, Roundworms, and Tardigrades. Frontiers in Physiology, 2020, 11, 592016.	2.8	58
41	RNA interference can be used to disrupt gene function in tardigrades. Development Genes and Evolution, 2013, 223, 171-181.	0.9	54
42	Crescerin uses a TOG domain array to regulate microtubules in the primary cilium. Molecular Biology of the Cell, 2015, 26, 4248-4264.	2.1	52
43	Asymmetric spindle positioning. Current Opinion in Cell Biology, 2006, 18, 79-85.	5.4	49
44	Internalization of multiple cells during C. elegans gastrulation depends on common cytoskeletal mechanisms but different cell polarity and cell fate regulators. Developmental Biology, 2011, 350, 1-12.	2.0	48
45	A Cell Cycle Timer for Asymmetric Spindle Positioning. PLoS Biology, 2009, 7, e1000088.	5.6	43
46	Culture and Manipulation of Embryonic Cells. Methods in Cell Biology, 2012, 107, 151-175.	1.1	38
47	Predicting Division Planes of Three-Dimensional Cells by Soap-Film Minimization. Plant Cell, 2018, 30, 2255-2266.	6.6	36
48	Gastrulation in C. elegans. WormBook, 2005, , 1-13.	5.3	33
49	In vivo roles for Arp2/3 in cortical actin organization during C. elegans gastrulation. Journal of Cell Science, 2009, 122, 3983-3993.	2.0	32
50	Segmentation in Tardigrada and diversification of segmental patterns in Panarthropoda. Arthropod Structure and Development, 2017, 46, 328-340.	1.4	32
51	Overcoming Redundancy: An RNAi Enhancer Screen for Morphogenesis Genes in Caenorhabditis elegans. Genetics, 2011, 188, 549-564.	2.9	30
52	Extracellular control of PAR protein localization during asymmetric cell division in the C. elegans embryo. Development (Cambridge), 2010, 137, 3337-3345.	2.5	29
53	CENP-A and topoisomerase-II antagonistically affect chromosome length. Journal of Cell Biology, 2017, 216, 2645-2655.	5.2	27
54	A Hypothesis for the Composition of the Tardigrade Brain and its Implications for Panarthropod Brain Evolution. Integrative and Comparative Biology, 2017, 57, 546-559.	2.0	26

#	ARTICLE	IF	CITATIONS
55	How signaling between cells can orient a mitotic spindle. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 842-849.	5.0	25
56	When cells tell their neighbors which direction to divide. , 2000, 218, 23-29.		24
57	Tardigrades. <i>Current Biology</i> , 2002, 12, R475.	3.9	24
58	Dynamic localization of <i>C. elegans</i> TPR-GoLoco proteins mediates mitotic spindle orientation by extrinsic signaling. <i>Development (Cambridge)</i> , 2011, 138, 4411-4422.	2.5	23
59	Identification of regulators of germ stem cell enwrapment by its niche in <i>C. elegans</i> . <i>Developmental Biology</i> , 2017, 429, 271-284.	2.0	23
60	<i>Caenorhabditis elegans</i> Gastrulation: A Model for Understanding How Cells Polarize, Change Shape, and Journey Toward the Center of an Embryo. <i>Genetics</i> , 2020, 214, 265-277.	2.9	23
61	Production of reactive oxygen species and involvement of bioprotectants during anhydrobiosis in the tardigrade <i>Paramacrobiotus spatialis</i> . <i>Scientific Reports</i> , 2022, 12, 1938.	3.3	23
62	Actin-based forces driving embryonic morphogenesis in <i>Caenorhabditis elegans</i> . <i>Current Opinion in Genetics and Development</i> , 2006, 16, 392-398.	3.3	22
63	Identifying Regulators of Morphogenesis Common to Vertebrate Neural Tube Closure and <i>Caenorhabditis elegans</i> Gastrulation. <i>Genetics</i> , 2016, 202, 123-139.	2.9	22
64	Dorsal and Snail homologs in leech development. <i>Development Genes and Evolution</i> , 2001, 211, 329-337.	0.9	21
65	Sydney Brenner on the Genetics of <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2016, 204, 1-2.	2.9	21
66	SapTrap assembly of repair templates for Cas9-triggered homologous recombination with a self-excising cassette. <i>MicroPublication Biology</i> , 2018, 2018, .	0.1	21
67	Asymmetric Transcript Discovery by RNA-seq in <i>C. elegans</i> Blastomeres Identifies neg-1, a Gene Important for Anterior Morphogenesis. <i>PLoS Genetics</i> , 2015, 11, e1005117.	3.5	20
68	The Emergence of the Tardigrade <i>Hypsibius exemplaris</i> as a Model System. <i>Cold Spring Harbor Protocols</i> , 2018, 2018, pdb.emo102301.	0.3	20
69	Embryonic polarity: A role for microtubules. <i>Current Biology</i> , 2000, 10, R820-R822.	3.9	18
70	Cell polarity in early <i>C. elegans</i> development. <i>Development (Cambridge)</i> , 1993, 119, 279-287.	2.5	18
71	LEA motifs promote desiccation tolerance in vivo. <i>BMC Biology</i> , 2021, 19, 263.	3.8	17
72	Redundant Canonical and Noncanonical <i>Caenorhabditis elegans</i> p21-Activated Kinase Signaling Governs Distal Tip Cell Migrations. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 181-195.	1.8	16

#	ARTICLE	IF	CITATIONS
73	Analyses of nervous system patterning genes in the tardigrade <i>Hypsibius exemplaris</i> illuminate the evolution of panarthropod brains. <i>EvoDevo</i> , 2018, 9, 19.	3.2	16
74	Ectopic Germ Cells Can Induce Niche-like Enwrapment by Neighboring Body Wall Muscle. <i>Current Biology</i> , 2019, 29, 823-833.e5.	3.9	16
75	Light-Dependent Cytoplasmic Recruitment Enhances the Dynamic Range of a Nuclear Import Photoswitch. <i>ChemBioChem</i> , 2018, 19, 1319-1325.	2.6	15
76	Reply to Bemm et al. and Arakawa: Identifying foreign genes in independent <i>Hypsibius dujardini</i> genome assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3058-E3061.	7.1	11
77	Symmetry Breaking in <i>C. elegans</i> : Another Gift from the Sperm. <i>Developmental Cell</i> , 2006, 11, 273-274.	7.0	10
78	A guide to setting up and managing a lab at a research-intensive institution. <i>BMC Proceedings</i> , 2021, 15, 8.	1.6	9
79	Tardigrades and their emergence as model organisms. <i>Current Topics in Developmental Biology</i> , 2022, 147, 173-198.	2.2	8
80	Embryonic Development: A New SPN on Cell Fate Specification. <i>Current Biology</i> , 2002, 12, R396-R398.	3.9	7
81	RNA Interference in <i>Caenorhabditis elegans</i> . , 2005, 309, 029-038.		7
82	Neural Tube Closure: The Curious Case of Shrinking Junctions. <i>Current Biology</i> , 2012, 22, R574-R576.	3.9	7
83	Fluorescent Cell Staining Methods for Living <i>Hypsibius exemplaris</i> Embryos. <i>Cold Spring Harbor Protocols</i> , 2018, 2018, pdb.prot106021.	0.3	7
84	Differential Expression Gene Explorer (DrEdGE): a tool for generating interactive online visualizations of gene expression datasets. <i>Bioinformatics</i> , 2020, 36, 2581-2583.	4.1	7
85	Wnt Signaling During <i>Caenorhabditis elegans</i> Embryonic Development. <i>Methods in Molecular Biology</i> , 2008, 469, 103-111.	0.9	5
86	Live Imaging of Tardigrade Embryonic Development by Differential Interference Contrast Microscopy. <i>Cold Spring Harbor Protocols</i> , 2018, 2018, pdb.prot102335.	0.3	5
87	Asymmetric Cell Division: A New Way to Divide Unequally. <i>Current Biology</i> , 2010, 20, R1029-R1031.	3.9	4
88	Asymmetric Division: AGS Proteins Position the Spindle. <i>Current Biology</i> , 2003, 13, R879-R880.	3.9	3
89	Moving Inward: Establishing the Mammalian Inner Cell Mass. <i>Developmental Cell</i> , 2015, 34, 385-386.	7.0	3
90	Asymmetric Division: A Kinesin for Spindle Positioning. <i>Current Biology</i> , 2005, 15, R591-R593.	3.9	1

#	ARTICLE	IF	CITATIONS
91	Genes required for RNA interference. , 2005, , 55-68.		1
92	Biophysics of Tardigrade Survival. Biophysical Journal, 2016, 110, 401a.	0.5	1
93	Tardigrade Disordered Proteins Mediate Desiccation Tolerance. Biophysical Journal, 2017, 112, 480a.	0.5	1
94	Cellular mechanisms of morphogenesis. Seminars in Cell and Developmental Biology, 2017, 67, 101-102.	5.0	1
95	Gelation and Vitrification of Tardigrade IDPs. Biophysical Journal, 2018, 114, 560a-561a.	0.5	1
96	On Francis Crick, the genetic code, and a clever kid. Current Biology, 2018, 28, R305.	3.9	1
97	Roles for Actin Dynamics in Cell Movements During Development. , 2010, , 187-209.		1
98	An MBoC Favorite: Receptor-mediated endocytosis in the Caenorhabditis elegans oocyte. Molecular Biology of the Cell, 2012, 23, 2235-2235.	2.1	0
99	Bob Goldstein: Cell biology by way of development. Journal of Cell Biology, 2013, 202, 400-401.	5.2	0
100	Remodelling germ cells by intercellular cannibalism. Nature Cell Biology, 2016, 18, 1267-1268.	10.3	0
101	Tardigrade Intrinsically Disordered Proteins as Potential Excipients for Biologics. Biophysical Journal, 2017, 112, 512a.	0.5	0
102	Cell polarity and morphogenesis: new technologies and new findings. Molecular Biology of the Cell, 2017, 28, 699-700.	2.1	0
103	Dynamic localization of C. elegans TPR-GoLoco proteins mediates mitotic spindle orientation by extrinsic signaling. Journal of Cell Science, 2011, 124, e1-e1.	2.0	0
104	Preface. Current Topics in Developmental Biology, 2022, 147, xvii-xviii.	2.2	0