

Bob Goldstein

List of Publications by Year in descending order

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104
papers

8,483
citations

70961

41
h-index

56606

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.	9.0	905
2	The PAR Proteins: Fundamental Players in Animal Cell Polarization. <i>Developmental Cell</i> , 2007, 13, 609-622.	3.1	702
3	Streamlined Genome Engineering with a Self-Excising Drug Selection Cassette. <i>Genetics</i> , 2015, 200, 1035-1049.	1.2	557
4	Apical constriction: A cell shape change that can drive morphogenesis. <i>Developmental Biology</i> , 2010, 341, 5-19.	0.9	408
5	Apical constriction: themes and variations on a cellular mechanism driving morphogenesis. <i>Development (Cambridge)</i> , 2014, 141, 1987-1998.	1.2	402
6	Tardigrades Use Intrinsically Disordered Proteins to Survive Desiccation. <i>Molecular Cell</i> , 2017, 65, 975-984.e5.	4.5	302
7	Noninvasive Imaging beyond the Diffraction Limit of 3D Dynamics in Thickly Fluorescent Specimens. <i>Cell</i> , 2012, 151, 1370-1385.	13.5	301
8	CRISPR-Based Methods for <i>Caenorhabditis elegans</i> Genome Engineering. <i>Genetics</i> , 2016, 202, 885-901.	1.2	258
9	Triggering a Cell Shape Change by Exploiting Preexisting Actomyosin Contractions. <i>Science</i> , 2012, 335, 1232-1235.	6.0	251
10	Induction of gut in <i>Caenorhabditis elegans</i> embryos. <i>Nature</i> , 1992, 357, 255-257.	13.7	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.	0.9	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.	1.8	166
13	Non-model model organisms. <i>BMC Biology</i> , 2017, 15, 55.	1.7	164
14	Wnt Signals Can Function as Positional Cues in Establishing Cell Polarity. <i>Developmental Cell</i> , 2006, 10, 391-396.	3.1	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.	3.3	145
16	A Single-Cell Biochemistry Approach Reveals PAR Complex Dynamics during Cell Polarization. <i>Developmental Cell</i> , 2017, 42, 416-434.e11.	3.1	139
17	Wnt/Frizzled Signaling Controls <i>C. elegans</i> Gastrulation by Activating Actomyosin Contractility. <i>Current Biology</i> , 2006, 16, 1986-1997.	1.8	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.	0.9	119

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19	A Transcriptional Lineage of the Early <i>C.Âelegans</i> Embryo. <i>Developmental Cell</i> , 2016, 38, 430-444.	3.1	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.	3.3	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.	2.6	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.	0.9	108
23	Segmental expression of Pax3/7 and Engrailed homologs in tardigrade development. <i>Development Genes and Evolution</i> , 2007, 217, 421-433.	0.4	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.	2.3	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.	1.8	96
26	Control of Protein Activity and Cell Fate Specification via Light-Mediated Nuclear Translocation. <i>PLoS ONE</i> , 2015, 10, e0128443.	1.1	95
27	Mechanisms of cell positioning during <i>C. elegans</i> gastrulation. <i>Development (Cambridge)</i> , 2003, 130, 307-320.	1.2	94
28	The Future of Cell Biology: Emerging Model Organisms. <i>Trends in Cell Biology</i> , 2016, 26, 818-824.	3.6	93
29	Axis specification in animal development. <i>BioEssays</i> , 1997, 19, 105-116.	1.2	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.	1.8	91
31	An expanded auxin-inducible degron toolkit for <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2021, 217, .	1.2	88
32	PAR Proteins Regulate Microtubule Dynamics at the Cell Cortex in <i>C. elegans</i> . <i>Current Biology</i> , 2003, 13, 707-714.	1.8	87
33	A CRISPR Tagging-Based Screen Reveals Localized Players in Wnt-Directed Asymmetric Cell Division. <i>Genetics</i> , 2018, 208, 1147-1164.	1.2	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, .	2.8	71
35	Optogenetic dissection of mitotic spindle positioning in vivo. <i>ELife</i> , 2018, 7, .	2.8	69
36	Cell Invasion In Vivo via Rapid Exocytosis of a Transient Lysosome-Derived Membrane Domain. <i>Developmental Cell</i> , 2017, 43, 403-417.e10.	3.1	67

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37	Embryonic axis specification in nematodes: evolution of the first step in development. <i>Current Biology</i> , 1998, 8, 157-160.	1.8	66
38	LITE microscopy: Tilted light-sheet excitation of model organisms offers high resolution and low photobleaching. <i>Journal of Cell Biology</i> , 2018, 217, 1869-1882.	2.3	64
39	On the evolution of early development in the Nematoda. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001, 356, 1521-1531.	1.8	60
40	Mechanisms of Desiccation Tolerance: Themes and Variations in Brine Shrimp, Roundworms, and Tardigrades. <i>Frontiers in Physiology</i> , 2020, 11, 592016.	1.3	58
41	RNA interference can be used to disrupt gene function in tardigrades. <i>Development Genes and Evolution</i> , 2013, 223, 171-181.	0.4	54
42	Creaserin uses a TOG domain array to regulate microtubules in the primary cilium. <i>Molecular Biology of the Cell</i> , 2015, 26, 4248-4264.	0.9	52
43	Asymmetric spindle positioning. <i>Current Opinion in Cell Biology</i> , 2006, 18, 79-85.	2.6	49
44	Internalization of multiple cells during <i>C. elegans</i> gastrulation depends on common cytoskeletal mechanisms but different cell polarity and cell fate regulators. <i>Developmental Biology</i> , 2011, 350, 1-12.	0.9	48
45	A Cell Cycle Timer for Asymmetric Spindle Positioning. <i>PLoS Biology</i> , 2009, 7, e1000088.	2.6	43
46	Culture and Manipulation of Embryonic Cells. <i>Methods in Cell Biology</i> , 2012, 107, 151-175.	0.5	38
47	Predicting Division Planes of Three-Dimensional Cells by Soap-Film Minimization. <i>Plant Cell</i> , 2018, 30, 2255-2266.	3.1	36
48	Gastrulation in <i>C. elegans</i> . <i>WormBook</i> , 2005, , 1-13.	5.3	33
49	In vivo roles for Arp2/3 in cortical actin organization during <i>C. elegans</i> gastrulation. <i>Journal of Cell Science</i> , 2009, 122, 3983-3993.	1.2	32
50	Segmentation in Tardigrada and diversification of segmental patterns in Panarthropoda. <i>Arthropod Structure and Development</i> , 2017, 46, 328-340.	0.8	32
51	Overcoming Redundancy: An RNAi Enhancer Screen for Morphogenesis Genes in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2011, 188, 549-564.	1.2	30
52	Extracellular control of PAR protein localization during asymmetric cell division in the <i>C. elegans</i> embryo. <i>Development (Cambridge)</i> , 2010, 137, 3337-3345.	1.2	29
53	CENP-A and topoisomerase-II antagonistically affect chromosome length. <i>Journal of Cell Biology</i> , 2017, 216, 2645-2655.	2.3	27
54	A Hypothesis for the Composition of the Tardigrade Brain and its Implications for Panarthropod Brain Evolution. <i>Integrative and Comparative Biology</i> , 2017, 57, 546-559.	0.9	26

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55	How signaling between cells can orient a mitotic spindle. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 842-849.	2.3	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.	1.8	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.	1.2	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.	0.9	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.	1.2	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.	1.6	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.	1.5	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.	1.2	22
64	Dorsal and Snail homologs in leech development. <i>Development Genes and Evolution</i> , 2001, 211, 329-337.	0.4	21
65	Sydney Brenner on the Genetics of <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2016, 204, 1-2.	1.2	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 <i>neg-1</i> , a Gene Important for Anterior Morphogenesis. <i>PLoS Genetics</i> , 2015, 11, e1005117.	1.5	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.	0.2	20
69	Embryonic polarity: A role for microtubules. <i>Current Biology</i> , 2000, 10, R820-R822.	1.8	18
70	Cell polarity in early <i>C. elegans</i> development. <i>Development (Cambridge)</i> , 1993, 119, 279-287.	1.2	18
71	LEA motifs promote desiccation tolerance in vivo. <i>BMC Biology</i> , 2021, 19, 263.	1.7	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.	0.8	16

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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.	1.3	16
74	Ectopic Germ Cells Can Induce Niche-like Enwrapment by Neighboring Body Wall Muscle. <i>Current Biology</i> , 2019, 29, 823-833.e5.	1.8	16
75	Light-Dependent Cytoplasmic Recruitment Enhances the Dynamic Range of a Nuclear Import Photoswitch. <i>ChemBioChem</i> , 2018, 19, 1319-1325.	1.3	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.	3.3	11
77	Symmetry Breaking in <i>C. elegans</i> : Another Gift from the Sperm. <i>Developmental Cell</i> , 2006, 11, 273-274.	3.1	10
78	A guide to setting up and managing a lab at a research-intensive institution. <i>BMC Proceedings</i> , 2021, 15, 8.	1.8	9
79	Tardigrades and their emergence as model organisms. <i>Current Topics in Developmental Biology</i> , 2022, 147, 173-198.	1.0	8
80	Embryonic Development: A New SPN on Cell Fate Specification. <i>Current Biology</i> , 2002, 12, R396-R398.	1.8	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.	1.8	7
83	Fluorescent Cell Staining Methods for Living <i>Hypsibius exemplaris</i> Embryos. <i>Cold Spring Harbor Protocols</i> , 2018, 2018, pdb.prot106021.	0.2	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.	1.8	7
85	Wnt Signaling During <i>Caenorhabditis elegans</i> Embryonic Development. <i>Methods in Molecular Biology</i> , 2008, 469, 103-111.	0.4	5
86	Live Imaging of Tardigrade Embryonic Development by Differential Interference Contrast Microscopy. <i>Cold Spring Harbor Protocols</i> , 2018, 2018, pdb.prot102335.	0.2	5
87	Asymmetric Cell Division: A New Way to Divide Unequally. <i>Current Biology</i> , 2010, 20, R1029-R1031.	1.8	4
88	Asymmetric Division: AGS Proteins Position the Spindle. <i>Current Biology</i> , 2003, 13, R879-R880.	1.8	3
89	Moving Inward: Establishing the Mammalian Inner Cell Mass. <i>Developmental Cell</i> , 2015, 34, 385-386.	3.1	3
90	Asymmetric Division: A Kinesin for Spindle Positioning. <i>Current Biology</i> , 2005, 15, R591-R593.	1.8	1

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91	Genes required for RNA interference. , 2005, , 55-68.		1
92	Biophysics of Tardigrade Survival. Biophysical Journal, 2016, 110, 401a.	0.2	1
93	Tardigrade Disordered Proteins Mediate Desiccation Tolerance. Biophysical Journal, 2017, 112, 480a.	0.2	1
94	Cellular mechanisms of morphogenesis. Seminars in Cell and Developmental Biology, 2017, 67, 101-102.	2.3	1
95	Gelation and Vitrification of Tardigrade IDPs. Biophysical Journal, 2018, 114, 560a-561a.	0.2	1
96	On Francis Crick, the genetic code, and a clever kid. Current Biology, 2018, 28, R305.	1.8	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.	0.9	0
99	Bob Goldstein: Cell biology by way of development. Journal of Cell Biology, 2013, 202, 400-401.	2.3	0
100	Remodelling germ cells by intercellular cannibalism. Nature Cell Biology, 2016, 18, 1267-1268.	4.6	0
101	Tardigrade Intrinsically Disordered Proteins as Potential Excipients for Biologics. Biophysical Journal, 2017, 112, 512a.	0.2	0
102	Cell polarity and morphogenesis: new technologies and new findings. Molecular Biology of the Cell, 2017, 28, 699-700.	0.9	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.	1.2	0
104	Preface. Current Topics in Developmental Biology, 2022, 147, xvii-xviii.	1.0	0