

# Bruce Bowerman

## List of Publications by Year in descending order

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96  
papers

9,310  
citations

53794

45  
h-index

51608

86  
g-index

146  
all docs

146  
docs citations

146  
times ranked

7524  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Promise and Perils of Wnt Signaling Through beta -Catenin. <i>Science</i> , 2002, 296, 1644-1646.	12.6	937
2	The TAK1- $\hat{N}$ LK-MAPK-related pathway antagonizes signalling between $\hat{I}^2$ -catenin and transcription factor TCF. <i>Nature</i> , 1999, 399, 798-802.	27.8	569
3	Correct integration of retroviral DNA in vitro. <i>Cell</i> , 1987, 49, 347-356.	28.9	537
4	Wnt Signaling Polarizes an Early <i>C. elegans</i> Blastomere to Distinguish Endoderm from Mesoderm. <i>Cell</i> , 1997, 90, 695-705.	28.9	470
5	The BTB protein MEL-26 is a substrate-specific adaptor of the CUL-3 ubiquitin-ligase. <i>Nature</i> , 2003, 425, 311-316.	27.8	378
6	skn-1, a maternally expressed gene required to specify the fate of ventral blastomeres in the early <i>C. elegans</i> embryo. <i>Cell</i> , 1992, 68, 1061-1075.	28.9	356
7	Centrosome Maturation and Mitotic Spindle Assembly in <i>C. elegans</i> Require SPD-5, a Protein with Multiple Coiled-Coil Domains. <i>Developmental Cell</i> , 2002, 3, 673-684.	7.0	269
8	MAP kinase and Wnt pathways converge to downregulate an HMG-domain repressor in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 1999, 399, 793-797.	27.8	263
9	MEX-3 Is a KH Domain Protein That Regulates Blastomere Identity in Early <i>C. elegans</i> Embryos. <i>Cell</i> , 1996, 87, 205-216.	28.9	253
10	The maternal gene skn-1 encodes a protein that is distributed unequally in early <i>C. elegans</i> embryos. <i>Cell</i> , 1993, 74, 443-452.	28.9	235
11	The Aurora-related kinase AIR-2 recruits ZEN-4/CeMKLP1 to the mitotic spindle at metaphase and is required for cytokinesis. <i>Current Biology</i> , 2000, 10, 1162-1171.	3.9	226
12	The Nonmuscle Myosin Regulatory Light Chain Gene mlc-4 Is Required for Cytokinesis, Anterior-Posterior Polarity, and Body Morphology during <i>Caenorhabditis elegans</i> Embryogenesis. <i>Journal of Cell Biology</i> , 1999, 146, 439-451.	5.2	191
13	A Formin Homology Protein and a Profilin Are Required for Cytokinesis and Arp2/3-Independent Assembly of Cortical Microfilaments in <i>C. elegans</i> . <i>Current Biology</i> , 2002, 12, 2066-2075.	3.9	187
14	Axon Regeneration Pathways Identified by Systematic Genetic Screening in <i>C. elegans</i> . <i>Neuron</i> , 2011, 71, 1043-1057.	8.1	182
15	Cytoskeletal Regulation by the Nedd8 Ubiquitin-Like Protein Modification Pathway. <i>Science</i> , 2002, 295, 1294-1298.	12.6	180
16	Restriction of Mesendoderm to a Single Blastomere by the Combined Action of SKN-1 and a GSK-3 $\hat{I}^2$ Homolog Is Mediated by MED-1 and -2 in <i>C. elegans</i> . <i>Molecular Cell</i> , 2001, 7, 475-485.	9.7	174
17	Inhibition of Rac by the GAP Activity of Centralspindlin Is Essential for Cytokinesis. <i>Science</i> , 2008, 322, 1543-1546.	12.6	172
18	The conserved protein DCN-1/Dcn1p is required for cullin neddylation in <i>C. elegans</i> and <i>S. cerevisiae</i> . <i>Nature</i> , 2005, 435, 1257-1261.	27.8	161

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19	Metaphase to Anaphase (mat) Transition—Defective Mutants in <i>Caenorhabditis elegans</i> . <i>Journal of Cell Biology</i> , 2000, 151, 1469-1482.	5.2	159
20	Neddylation and Deneddylation of CUL-3 Is Required to Target MEI-1/Katanin for Degradation at the Meiosis-to-Mitosis Transition in <i>C. elegans</i> . <i>Current Biology</i> , 2003, 13, 911-921.	3.9	157
21	Multiple Wnt Signaling Pathways Converge to Orient the Mitotic Spindle in Early <i>C. elegans</i> Embryos. <i>Developmental Cell</i> , 2004, 7, 831-841.	7.0	156
22	A new mechanism controlling kinetochore—microtubule interactions revealed by comparison of two dynein-targeting components: SPDL-1 and the Rod/Zwilch/Zw10 complex. <i>Genes and Development</i> , 2008, 22, 2385-2399.	5.9	156
23	Asymmetric cell division: fly neuroblast meets worm zygote. <i>Current Opinion in Cell Biology</i> , 2001, 13, 68-75.	5.4	150
24	DNA Replication Defects Delay Cell Division and Disrupt Cell Polarity in Early <i>Caenorhabditis elegans</i> Embryos. <i>Developmental Biology</i> , 2000, 228, 225-238.	2.0	122
25	Symmetry Breaking in Biology. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a003475-a003475.	5.5	118
26	Heterotrimeric G protein signaling functions with dynein to promote spindle positioning in <i>C. elegans</i> . <i>Journal of Cell Biology</i> , 2007, 179, 15-22.	5.2	114
27	Cell Polarity and the Cytoskeleton in the <i>Caenorhabditis Elegans</i> Zygote. <i>Annual Review of Genetics</i> , 2003, 37, 221-249.	7.6	113
28	$\beta$ -Catenin Asymmetries after All Animal/Vegetal- Oriented Cell Divisions in <i>Platynereis dumerilii</i> Embryos Mediate Binary Cell-Fate Specification. <i>Developmental Cell</i> , 2007, 13, 73-86.	7.0	109
29	Mutations in <i>Caenorhabditis elegans</i> Cytoplasmic Dynein Components Reveal Specificity of Neuronal Retrograde Cargo. <i>Journal of Neuroscience</i> , 2004, 24, 3907-3916.	3.6	101
30	<i>Caenorhabditis elegans</i> SAND-1 is essential for RAB-7 function in endosomal traffic. <i>EMBO Journal</i> , 2007, 26, 301-312.	7.8	99
31	The Anaphase-Promoting Complex and Separin Are Required for Embryonic Anterior-Posterior Axis Formation. <i>Developmental Cell</i> , 2002, 2, 195-206.	7.0	97
32	Wnt signalling in <i>Caenorhabditis elegans</i> : regulating repressors and polarizing the cytoskeleton. <i>Trends in Cell Biology</i> , 2000, 10, 10-17.	7.9	96
33	3 Maternal Control of Pattern Formation in Early <i>Caenorhabditis elegans</i> Embryos. <i>Current Topics in Developmental Biology</i> , 1998, 39, 73-117.	2.2	95
34	Myosin and the PAR proteins polarize microfilament-dependent forces that shape and position mitotic spindles in <i>Caenorhabditis elegans</i> . <i>Journal of Cell Biology</i> , 2003, 161, 21-26.	5.2	91
35	Cellular Symmetry Breaking during <i>Caenorhabditis elegans</i> Development. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a003400-a003400.	5.5	89
36	A Spindle Checkpoint Functions during Mitosis in the Early <i>Caenorhabditis elegans</i> Embryo. <i>Molecular Biology of the Cell</i> , 2005, 16, 1056-1070.	2.1	80

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37	Dynein Modifiers in <i>C. elegans</i> : Light Chains Suppress Conditional Heavy Chain Mutants. <i>PLoS Genetics</i> , 2007, 3, e128.	3.5	80
38	Oocyte Meiotic Spindle Assembly and Function. <i>Current Topics in Developmental Biology</i> , 2016, 116, 65-98.	2.2	75
39	Heads or Tails. <i>Developmental Cell</i> , 2002, 3, 157-166.	7.0	73
40	Combinatorial Contact Cues Specify Cell Division Orientation by Directing Cortical Myosin Flows. <i>Developmental Cell</i> , 2018, 46, 257-270.e5.	7.0	71
41	Degrade to create: developmental requirements for ubiquitin-mediated proteolysis during early <i>C. elegans</i> embryogenesis. <i>Development (Cambridge)</i> , 2006, 133, 773-784.	2.5	64
42	Mitotic Cell Division in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2019, 211, 35-73.	2.9	63
43	A Survey of New Temperature-Sensitive, Embryonic-Lethal Mutations in <i>C. elegans</i> : 24 Alleles of Thirteen Genes. <i>PLoS ONE</i> , 2011, 6, e16644.	2.5	62
44	<i>Caenorhabditis elegans</i> EFA-6 limits microtubule growth at the cell cortex. <i>Nature Cell Biology</i> , 2010, 12, 1235-1241.	10.3	61
45	A new DNA-binding motif in the Skn-1 binding domainâ€œDNA complex. <i>Nature Structural Biology</i> , 1998, 5, 484-491.	9.7	53
46	Cell polarity in the early <i>Caenorhabditis elegans</i> embryo. <i>Current Opinion in Genetics and Development</i> , 1999, 9, 390-395.	3.3	50
47	Centriolar SAS-7 acts upstream of SPD-2 to regulate centriole assembly and pericentriolar material formation. <i>ELife</i> , 2017, 6, .	6.0	50
48	<i>Caenorhabditis elegans</i> oocyte meiotic spindle pole assembly requires microtubule severing and the calponin homology domain protein ASPM-1. <i>Molecular Biology of the Cell</i> , 2014, 25, 1298-1311.	2.1	49
49	KLP-7 acts through the Ndc80 complex to limit pole number in <i>C. elegans</i> oocyte meiotic spindle assembly. <i>Journal of Cell Biology</i> , 2015, 210, 917-932.	5.2	46
50	CELL BIOLOGY: Oxidative Stress and Cancer: A $\beta$ -Catenin Convergence. <i>Science</i> , 2005, 308, 1119-1120.	12.6	43
51	Ectodermâ€œand endomesodermâ€œspecific GATA transcription factors in the marine annelid <i>Platynereis dumerilli</i> . <i>Evolution &amp; Development</i> , 2007, 9, 39-50.	2.0	43
52	Control of nuclear centration in the <i>C. elegans</i> zygote by receptor-independent $G\beta$ signaling and myosin II. <i>Journal of Cell Biology</i> , 2007, 178, 1177-1191.	5.2	39
53	ZYG-9, TAC-1 and ZYG-8 together ensure correct microtubule function throughout the cell cycle of <i>C. elegans</i> embryos. <i>Journal of Cell Science</i> , 2007, 120, 2963-2973.	2.0	35
54	CRL2LRR-1 E3-Ligase Regulates Proliferation and Progression through Meiosis in the <i>Caenorhabditis elegans</i> Germline. <i>PLoS Genetics</i> , 2013, 9, e1003375.	3.5	35

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55	Maternally expressed and partially redundant $\hat{\gamma}$ -tubulins in <i>Caenorhabditis elegans</i> are autoregulated. <i>Journal of Cell Science</i> , 2004, 117, 457-464.	2.0	32
56	An Evolutionarily Conserved Innate Immunity Protein Interaction Network. <i>Journal of Biological Chemistry</i> , 2013, 288, 1967-1978.	3.4	31
57	MOM-5 Frizzled regulates the distribution of DSH-2 to control <i>C. elegans</i> asymmetric neuroblast divisions. <i>Developmental Biology</i> , 2005, 284, 246-259.	2.0	30
58	Determinants of blastomere identity in the early <i>C. elegans</i> embryo. <i>BioEssays</i> , 1995, 17, 405-414.	2.5	29
59	The puromycin-sensitive aminopeptidase PAM-1 is required for meiotic exit and anteroposterior polarity in the one-cell <i>Caenorhabditis elegans</i> embryo. <i>Development (Cambridge)</i> , 2006, 133, 4281-4292.	2.5	29
60	E3 ubiquitin ligases promote progression of differentiation during <i>C. elegans</i> embryogenesis. <i>Developmental Biology</i> , 2015, 398, 267-279.	2.0	25
61	High-Throughput Cloning of Temperature-Sensitive <i>Caenorhabditis elegans</i> Mutants with Adult Syncytial Germline Membrane Architecture Defects. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2241-2255.	1.8	24
62	Tumor suppressor APC is an attenuator of spindle-pulling forces during <i>C. elegans</i> asymmetric cell division. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E954-E963.	7.1	24
63	MIP-MAP: High-Throughput Mapping of <i>Caenorhabditis elegans</i> Temperature-Sensitive Mutants via Molecular Inversion Probes. <i>Genetics</i> , 2017, 207, 447-463.	2.9	23
64	Excess crossovers impede faithful meiotic chromosome segregation in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2020, 16, e1009001.	3.5	22
65	Epigenetic Regulation of Histone H3 Serine 10 Phosphorylation Status by HCF-1 Proteins in <i>C. elegans</i> and Mammalian Cells. <i>PLoS ONE</i> , 2007, 2, e1213.	2.5	21
66	Using RNA Interference to Identify Specific Modifiers of a Temperature-Sensitive, Embryonic-Lethal Mutation in the <i>Caenorhabditis elegans</i> Ubiquitin-Like Nedd8 Protein Modification Pathway E1-Activating Gene <i>rfl-1</i> . <i>Genetics</i> , 2009, 182, 1035-1049.	2.9	21
67	Cell division: Plant-like properties of animal cell cytokinesis. <i>Current Biology</i> , 1999, 9, R658-R660.	3.9	19
68	Rapid Mapping and Identification of Mutations in <i>Caenorhabditis elegans</i> by Restriction Site-Associated DNA Mapping and Genomic Interval Pull-Down Sequencing. <i>Genetics</i> , 2011, 189, 767-778.	2.9	16
69	<i>Caenorhabditis elegans</i> par genes. <i>Current Biology</i> , 2002, 12, R444.	3.9	14
70	<i>C. elegans</i> CLASP/CLS-2 negatively regulates membrane ingression throughout the oocyte cortex and is required for polar body extrusion. <i>PLoS Genetics</i> , 2020, 16, e1008751.	3.5	14
71	Wnt Moves Beyond the Canon. <i>Science</i> , 2008, 320, 327-328.	12.6	13
72	Embryonic polarity: Protein stability in asymmetric cell division. <i>Current Biology</i> , 2000, 10, R637-R641.	3.9	12

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73	Microtubule assembly and pole coalescence: early steps in <i>C. elegans</i> oocyte meiosis I spindle assembly. <i>Biology Open</i> , 2020, 9, .	1.2	12
74	Cytokinesis. <i>Developmental Cell</i> , 2002, 2, 4-6.	7.0	8
75	Timing the machine. <i>Nature</i> , 2004, 430, 840-841.	27.8	8
76	<i>C. elegans</i> Aging: Proteolysis Cuts Both Ways. <i>Current Biology</i> , 2007, 17, R514-R516.	3.9	7
77	Advances in Cytokinesis Research. Cytokinesis in the <i>C. elegans</i> Embryo: Regulating Contractile Forces and a Late Role for the Central Spindle.. <i>Cell Structure and Function</i> , 2001, 26, 603-607.	1.1	6
78	Animal Development: An Ancient $\beta$ -Catenin Switch?. <i>Current Biology</i> , 2013, 23, R313-R315.	3.9	6
79	Cell Polarity: Keeping Worms LeGaL. <i>Current Biology</i> , 2010, 20, R646-R648.	3.9	5
80	The near demise and subsequent revival of classical genetics for investigating <i>Caenorhabditis elegans</i> embryogenesis: RNAi meets next-generation DNA sequencing. <i>Molecular Biology of the Cell</i> , 2011, 22, 3556-3558.	2.1	4
81	Cell Biology: Scaling and the Emergence of Evolutionary Cell Biology. <i>Current Biology</i> , 2015, 25, R223-R225.	3.9	4
82	Uncoiling centriole duplication. <i>Nature Cell Biology</i> , 2004, 6, 573-575.	10.3	3
83	Interactions between the WEE-1.3 kinase and the PAM-1 aminopeptidase in oocyte maturation and the early <i>C. elegans</i> embryo. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	3
84	A Semi-Dominant Mutation in the General Splicing Factor SF3a66 Causes Anterior-Posterior Axis Reversal in One-Cell Stage <i>C. elegans</i> Embryos. <i>PLoS ONE</i> , 2014, 9, e106484.	2.5	3
85	Frontiers of gene function. <i>Nature</i> , 2005, 434, 444-445.	27.8	2
86	Advocating Asymmetry and the POP-1 Paradox: Noncanonical Wnt Signaling in <i>C. elegans</i> . <i>Cell</i> , 2005, 121, 662-664.	28.9	2
87	The worm keeps turning. <i>Nature</i> , 1997, 390, 228-229.	27.8	0
88	Left-Right Asymmetry: Making the Right Decision Early. <i>Current Biology</i> , 2006, 16, R1039-R1042.	3.9	0
89	Pushing Your Back into Place. <i>Science</i> , 2012, 336, 984-985.	12.6	0
90	Breaking Symmetry: Worm Cue Finally Found. <i>Developmental Cell</i> , 2019, 48, 593-594.	7.0	0

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91	A genetic screen for temperature-sensitive morphogenesis-defective <i>Caenorhabditis elegans</i> mutants. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	0
92	The chromatin remodeling protein CHD-1 and the EFL-1/DPL-1 transcription factor cooperatively down regulate CDK-2 to control SAS-6 levels and centriole number. <i>PLoS Genetics</i> , 2022, 18, e1009799.	3.5	0
93	Title is missing!. , 2020, 16, e1008751.		0
94	Title is missing!. , 2020, 16, e1008751.		0
95	Title is missing!. , 2020, 16, e1008751.		0
96	Title is missing!. , 2020, 16, e1008751.		0