Min Han

List of Publications by Year
in descending order

96 papers	8,260 citations	66343 42 h-index	48315 88 g-index
98 all docs	98 docs citations	98 times ranked	8554 citing authors

#	Article	IF	Citations
1	Efficient Transposition of the piggyBac (PB) Transposon in Mammalian Cells and Mice. Cell, 2005, 122, 473-483.	28.9	865
2	SUN1/2 and Syne/Nesprin-1/2 Complexes Connect Centrosome to the Nucleus during Neurogenesis and Neuronal Migration in Mice. Neuron, 2009, 64, 173-187.	8.1	414
3	SUN1 Is Required for Telomere Attachment to Nuclear Envelope and Gametogenesis in Mice. Developmental Cell, 2007, 12, 863-872.	7.0	376
4	Role of ANC-1 in Tethering Nuclei to the Actin Cytoskeleton. Science, 2002, 298, 406-409.	12.6	373
5	A 5-bp deletion in ELOVL4 is associated with two related forms of autosomal dominant macular dystrophy. Nature Genetics, 2001, 27, 89-93.	21.4	370
6	The C. elegans ksr-1 gene encodes a novel raf-related kinase involved in Ras-mediated signal transduction. Cell, 1995, 83, 889-901.	28.9	295
7	C. elegans lin-45 raf gene participates in let-60 ras-stimulated vulval differentiation. Nature, 1993, 363, 133-140.	27.8	263
8	The Developmental Timing Regulator AIN-1 Interacts with miRISCs and May Target the Argonaute Protein ALG-1 to Cytoplasmic P Bodies in C. elegans. Molecular Cell, 2005, 19, 437-447.	9.7	232
9	Syne-1 and Syne-2 play crucial roles in myonuclear anchorage and motor neuron innervation. Development (Cambridge), 2007, 134, 901-908.	2.5	230
10	Systematic Identification of C.Âelegans miRISC Proteins, miRNAs, and mRNA Targets by Their Interactions with GW182 Proteins AIN-1 and AIN-2. Molecular Cell, 2007, 28, 598-613.	9.7	226
11	SUN1 and SUN2 play critical but partially redundant roles in anchoring nuclei in skeletal muscle cells in mice. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10207-10212.	7.1	221
12	Genetics of RAS signaling in C. elegans. Trends in Genetics, 1998, 14, 466-472.	6.7	201
13	mirWIP: microRNA target prediction based on microRNA-containing ribonucleoproteinâ€"enriched transcripts. Nature Methods, 2008, 5, 813-819.	19.0	201
14	A New Marker for Mosaic Analysis in Caenorhabditis elegans Indicates a Fusion Between hyp6 and hyp7, Two Major Components of the Hypodermis. Genetics, 1998, 149, 1323-1334.	2.9	201
15	Syne proteins anchor muscle nuclei at the neuromuscular junction. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4359-4364.	7.1	193
16	SUR-8, a Conserved Ras-Binding Protein with Leucine-Rich Repeats, Positively Regulates Ras-Mediated Signaling in C. elegans. Cell, 1998, 94, 119-130.	28.9	192
17	Monomethyl Branched-Chain Fatty Acids Play an Essential Role in Caenorhabditis elegans Development. PLoS Biology, 2004, 2, e257.	5.6	186
18	KASH protein Syne-2/Nesprin-2 and SUN proteins SUN1/2 mediate nuclear migration during mammalian retinal development. Human Molecular Genetics, 2011, 20, 1061-1073.	2.9	144

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19	<i>unc-83</i>encodes a novel component of the nuclear envelope and is essential for proper nuclear migration. Development (Cambridge), 2001, 128, 5039-5050.	2.5	143
20	<i>Caenorhabditis elegans</i> SUR-5, a Novel but Conserved Protein, Negatively Regulates LET-60 Ras Activity during Vulval Induction. Molecular and Cellular Biology, 1998, 18, 4556-4564.	2.3	134
21	fzr-1 and lin-35/Rb function redundantly to control cell proliferation in C. elegans as revealed by a nonbiased synthetic screen. Genes and Development, 2002, 16, 503-517.	5.9	128
22	The leucine-rich repeat protein SUR-8 enhances MAP kinase activation and forms a complex with Ras and Raf. Genes and Development, 2000, 14, 895-900.	5.9	128
23	Microbial Siderophore Enterobactin Promotes Mitochondrial Iron Uptake and Development of the Host via Interaction with ATP Synthase. Cell, 2018, 175, 571-582.e11.	28.9	124
24	TOR Signaling in <i>Caenorhabditis elegans</i> Development, Metabolism, and Aging. Genetics, 2019, 213, 329-360.	2.9	101
25	Inner Nuclear Envelope Proteins SUN1 and SUN2 Play a Prominent Role in the DNA Damage Response. Current Biology, 2012, 22, 1609-1615.	3.9	100
26	microRNAs play critical roles in the survival and recovery of <i>Caenorhabditis elegans</i> from starvation-induced L1 diapause. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17997-18002.	7.1	98
27	SynMuv Genes Redundantly Inhibit lin-3/EGF Expression to Prevent Inappropriate Vulval Induction in C. elegans. Developmental Cell, 2006, 10, 667-672.	7.0	95
28	ADAM10 is essential for proteolytic activation of Notch during thymocyte development. International Immunology, 2008, 20, 1181-1187.	4.0	90
29	Diverse Chromatin Remodeling Genes Antagonize the Rb-Involved SynMuv Pathways in C. elegans. PLoS Genetics, 2006, 2, e74.	3.5	89
30	A New Locus for Autosomal Dominant Stargardt-Like Disease Maps to Chromosome 4. American Journal of Human Genetics, 1999, 64, 1394-1399.	6.2	88
31	A novel sphingolipid-TORC1 pathway critically promotes postembryonic development in Caenorhabditis elegans. ELife, 2013, 2, e00429.	6.0	85
32	A branched-chain fatty acid is involved in post-embryonic growth control in parallel to the insulin receptor pathway and its biosynthesis is feedback-regulated in <i>C. elegans</i>. Genes and Development, 2008, 22, 2102-2110.	5.9	71
33	Suppression of the ELO-2 FA Elongation Activity Results in Alterations of the Fatty Acid Composition and Multiple Physiological Defects, Including Abnormal Ultradian Rhythms, in <i>Caenorhabditis elegans</i>. Genetics, 2003, 163, 159-169.	2.9	71
34	Control and integration of cell signaling pathways duringC. Elegans vulval development. BioEssays, 1996, 18, 473-480.	2.5	70
35	The C. elegans evl-20 Gene Is a Homolog of the Small GTPase ARL2 and Regulates Cytoskeleton Dynamics during Cytokinesis and Morphogenesis. Developmental Cell, 2002, 2, 579-591.	7.0	61
36	A vitamin-B2-sensing mechanism that regulates gut protease activity to impact animalâ€™s food behavior and growth. ELife, 2017, 6, .	6.0	58

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37	The synthetic multivulval genes ofC. elegans: functional redundancy, Ras-antagonism, and cell fate determination. Genesis, 2000, 26, 279-284.	1.6	57
38	Mitochondrial Dysfunction in C.Âelegans Activates Mitochondrial Relocalization and Nuclear Hormone Receptor-Dependent Detoxification Genes. Cell Metabolism, 2019, 29, 1182-1191.e4.	16.2	55
39	C. elegans Rb, NuRD, and Ras regulate lin-39 -mediated cell fusion during vulval fate specification. Current Biology, 2001, 11, 1874-1879.	3.9	53
40	Genes involved in pre-mRNA 3â€²-end formation and transcription termination revealed by a <i>lin-15</i> operon Muv suppressor screen. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16665-16670.	7.1	50
41	The fatty acid synthase<i>fasn-1</i>acts upstream of WNK and Ste20/GCK-VI kinases to modulate antimicrobial peptide expression in<i>C. elegans</i>epidermis. Virulence, 2010, 1, 113-122.	4.4	50
42	Systematic Analysis of Tissue-Restricted miRISCs Reveals a Broad Role for MicroRNAs in Suppressing Basal Activity of the C.Âelegans Pathogen Response. Molecular Cell, 2012, 46, 530-541.	9.7	47
43	Cis regulatory requirements for vulval cell-specific expression of the caenorhabditis elegans fibroblast growth factor gene egl-17. Developmental Biology, 2003, 257, 104-116.	2.0	45
44	CED-3 caspase acts with miRNAs to regulate non-apoptotic gene expression dynamics for robust development in C. elegans. ELife, 2014, 3, e04265.	6.0	43
45	Role of<i>C. elegans lin-40</i>MTA in vulval fate specification and morphogenesis. Development (Cambridge), 2001, 128, 4911-4921.	2.5	42
46	Systematic analysis of dynamic miRNA-target interactions during <i>C. elegans</i> development. Development (Cambridge), 2009, 136, 3043-3055.	2.5	41
47	Coupled Caspase and N-End Rule Ligase Activities Allow Recognition and Degradation of Pluripotency Factor LIN-28 during Non-Apoptotic Development. Developmental Cell, 2017, 41, 665-673.e6.	7.0	41
48	Regulation of maternal phospholipid composition and IP₃-dependent embryonic membrane dynamics by a specific fatty acid metabolic event in <i>C. elegans</i>. Genes and Development, 2012, 26, 554-566.	5.9	40
49	Nucleotide levels regulate germline proliferation through modulating GLP-1/Notch signaling in <i>C. elegans</i>. Genes and Development, 2016, 30, 307-320.	5.9	39
50	Intestinal apical polarity mediates regulation of TORC1 by glucosylceramide in <i>C. elegans</i>. Genes and Development, 2015, 29, 1218-1223.	5.9	38
51	Fatty Acids Regulate Germline Sex Determination through ACS-4-Dependent Myristoylation. Cell, 2017, 169, 457-469.e13.	28.9	37
52	A Lipid-TORC1 Pathway Promotes Neuronal Development and Foraging Behavior under Both Fed and Fasted Conditions in C.Âelegans. Developmental Cell, 2015, 33, 260-271.	7.0	36
53	A new locus for dominant drusen and macular degeneration maps to chromosome 6q14. American Journal of Ophthalmology, 2000, 130, 197-202.	3.3	33
54	Endothelial SURâ€8 acts in an ERKâ€independent pathway during atrioventricular cushion development. Developmental Dynamics, 2010, 239, 2005-2013.	1.8	31

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55	A Cuticle Collagen Encoded by the <i>lon-3</i> Gene May Be a Target of TGF-Î² Signaling in Determining <i>Caenorhabditis elegans</i> Body Shape. Genetics, 2002, 162, 1631-1639.	2.9	31
56	sem-4 Promotes Vulval Cell-Fate Determination in Caenorhabditis elegans through Regulation of lin-39 Hox. Developmental Biology, 2000, 224, 496-506.	2.0	30
57	The Caenorhabditis elegans EGL-26 Protein Mediates Vulval Cell Morphogenesis. Developmental Biology, 2002, 241, 247-258.	2.0	29
58	Clinical and genetic studies of an autosomal dominant cone-rod dystrophy with features of Stargardt disease. Ophthalmic Genetics, 1999, 20, 71-81.	1.2	27
59	P-Type ATPase TAT-2 Negatively Regulates Monomethyl Branched-Chain Fatty Acid Mediated Function in Post-Embryonic Growth and Development in C. elegans. PLoS Genetics, 2009, 5, e1000589.	3.5	26
60	Developmental Defects of Caenorhabditis elegans Lacking Branched-chain Î±-Ketoacid Dehydrogenase Are Mainly Caused by Monomethyl Branched-chain Fatty Acid Deficiency. Journal of Biological Chemistry, 2016, 291, 2967-2973.	3.4	26
61	Genetic redundancy masks diverse functions of the tumor suppressor gene PTEN during C. elegans development. Genes and Development, 2006, 20, 423-428.	5.9	25
62	The Tumor Suppressor Rb Critically Regulates Starvation-Induced Stress Response in C.Âelegans. Current Biology, 2013, 23, 975-980.	3.9	25
63	Non-Canonical Caspase Activity Antagonizes p38 MAPK Stress-Priming Function to Support Development. Developmental Cell, 2020, 53, 358-369.e6.	7.0	25
64	The Caenorhabditis elegans aristaless Orthologue, alr-1, Is Required for Maintaining the Functional and Structural Integrity of the Amphid Sensory Organs. Molecular Biology of the Cell, 2005, 16, 4695-4704.	2.1	23
65	A Gain-of-Function Allele of cbp-1, the Caenorhabditis elegans Ortholog of the Mammalian CBP/p300 Gene, Causes an Increase in Histone Acetyltransferase Activity and Antagonism of Activated Ras. Molecular and Cellular Biology, 2005, 25, 9427-9434.	2.3	22
66	A Genetic Approach to Study the Role of Nuclear Envelope Components in Nuclear Positioning. Novartis Foundation Symposium, 2008, , 208-226.	1.1	22
67	The Histone Methyltransferase Ash1l is Required for Epidermal Homeostasis in Mice. Scientific Reports, 2017, 7, 45401.	3.3	22
68	Starvation-Induced Stress Response Is Critically Impacted by Ceramide Levels in <i>Caenorhabditis elegans</i>. Genetics, 2017, 205, 775-785.	2.9	21
69	Disruption of Gpr45 causes reduced hypothalamic POMC expression and obesity. Journal of Clinical Investigation, 2016, 126, 3192-3206.	8.2	21
70	Functional Analysis of Neuronal MicroRNAs in Caenorhabditis elegans Dauer Formation by Combinational Genetics and Neuronal miRISC Immunoprecipitation. PLoS Genetics, 2013, 9, e1003592.	3.5	19
71	Peroxisome Protein Transportation Affects Metabolism of Branched-Chain Fatty Acids That Critically Impact Growth and Development of C. elegans. PLoS ONE, 2013, 8, e76270.	2.5	18
72	Muscle cell migrations of C. elegans are mediated by the Î±-integrin INA-1, Eph receptor VAB-1, and a novel peptidase homologue MNP-1. Developmental Biology, 2008, 318, 215-223.	2.0	17

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73	The GATA Factor elt-1 Regulates C. elegans Developmental Timing by Promoting Expression of the let-7 Family MicroRNAs. PLoS Genetics, 2015, 11, e1005099.	3.5	12
74	Regulation of Nucleotide Metabolism and Germline Proliferation in Response to Nucleotide Imbalance and Genotoxic Stresses by EndoU Nuclease. Cell Reports, 2020, 30, 1848-1861.e5.	6.4	12
75	Rasal2 deficiency reduces adipogenesis and occurrence of obesity-related disorders. Molecular Metabolism, 2017, 6, 494-502.	6.5	11
76	A piggyBac insertion disrupts Foxl2 expression that mimics BPES syndrome in mice. Human Molecular Genetics, 2014, 23, 3792-3800.	2.9	10
77	The Vitamin K Epoxide Reductase <i>Vkorc1l1</i> Promotes Preadipocyte Differentiation in Mice. Obesity, 2018, 26, 1303-1311.	3.0	9
78	Advancing biology with a growing worm field. Developmental Dynamics, 2010, 239, 1263-1264.	1.8	8
79	Bacterial peptidoglycan muropeptides benefit mitochondrial homeostasis and animal physiology by acting as ATP synthase agonists. Developmental Cell, 2022, 57, 361-372.e5.	7.0	8
80	Allele-Specific Suppressors of <i>lin-1(R175Opal)</i> Identify Functions of MOC-3 and DPH-3 in tRNA Modification Complexes in <i>Caenorhabditis elegans</i>. Genetics, 2010, 185, 1235-1247.	2.9	7
81	RNA Binding Protein Vigilin Collaborates with miRNAs To Regulate Gene Expression for <i>Caenorhabditis elegans</i> Larval Development. G3: Genes, Genomes, Genetics, 2017, 7, 2511-2518.	1.8	7
82	Getting signals crossed in C. elegans. Current Opinion in Genetics and Development, 2000, 10, 523-528.	3.3	6
83	Time to move the fat. Genes and Development, 2016, 30, 1481-1482.	5.9	6
84	Building a protein interaction map: research in the post-genome era. BioEssays, 2000, 22, 503-506.	2.5	5
85	Twists and turnsâ€"How we stepped into and had fun in the â€œboringâ€•lipid field. Science China Life Sciences, 2015, 58, 1073-1083.	4.9	5
86	Generation of a Mouse Full-length Balancer with Versatile Cassette-shuttling Selection Strategy. International Journal of Biological Sciences, 2016, 12, 911-916.	6.4	5
87	Disruption of the Golgi protein Otg1 gene causes defective hormone secretion and aberrant glucose homeostasis in mice. Cell and Bioscience, 2016, 6, 41.	4.8	5
88	Tag team: Roles of miRNAs and Proteolytic Regulators in Ensuring Robust Gene Expression Dynamics. Trends in Genetics, 2018, 34, 21-29.	6.7	4
89	An unexpected benefit from E. coli: how enterobactin benefits host health. Microbial Cell, 2018, 5, 469-471.	3.2	4
90	Multi-scaled normal mode analysis method for dynamics simulation of protein-membrane complexes: A case study of potassium channel gating motion correlations. Journal of Chemical Physics, 2015, 143, 134113.	3.0	3

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91	Functional analysis of the miRNA-mRNA interaction network inC. elegans. Worm, 2013, 2, e26894.	1.0	2
92	Notch signaling protects animals from nucleotide deficiency. Cell Cycle, 2016, 15, 1941-1942.	2.6	2
93	Fatty acids impact sarcomere integrity through myristoylation and ER homeostasis. Cell Reports, 2021, 36, 109539.	6.4	2
94	The TORC1 phosphoproteome in C.Âelegans reveals roles in transcription and autophagy. IScience, 2022, 25, 104186.	4.1	2
95	Ras Signaling in C. Elegans. , 2006, , 199-225.		1
96	Learning from the worm: the effectiveness of protein-bound Moco to treat Moco deficiency. Genes and Development, 2021, 35, 177-179.	5.9	0