

Jing-Dong J Han

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

10,621
citations

61857

43
h-index

33814

99
g-index

112
all docs

112
docs citations

112
times ranked

15362
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-species metabolomic analysis identifies uridine as a potent regeneration promoting factor. <i>Cell Discovery</i> , 2022, 8, 6.	3.1	50
2	Distinct biological ages of organs and systems identified from a multi-omics study. <i>Cell Reports</i> , 2022, 38, 110459.	2.9	74
3	Ageing induces tissue-specific transcriptomic changes in <i>Caenorhabditis elegans</i> . <i>EMBO Journal</i> , 2022, 41, e109633.	3.5	22
4	The Effects of Graded Levels of Calorie Restriction: XVI. Metabolomic Changes in the Cerebellum Indicate Activation of Hypothalamocerebellar Connections Driven by Hunger Responses. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 601-610.	1.7	8
5	BACH1 recruits NANOG and histone H3 lysine 4 methyltransferase MLL/SET1 complexes to regulate enhancer-promoter activity and maintains pluripotency. <i>Nucleic Acids Research</i> , 2021, 49, 1972-1986.	6.5	24
6	A digitized catalog of COVID-19 epidemiology data. <i>Quantitative Biology</i> , 2021, 9, 23-46.	0.3	0
7	Integrative genomic analysis of early neurogenesis reveals a temporal genetic program for differentiation and specification of preplate and Cajal-Retzius neurons. <i>PLoS Genetics</i> , 2021, 17, e1009355.	1.5	15
8	A single-cell resolution developmental atlas of hematopoietic stem and progenitor cell expansion in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	34
9	Aging-associated lncRNAs are evolutionarily conserved and participate in NF- κ B signaling. <i>Nature Aging</i> , 2021, 1, 438-453.	5.3	15
10	De novo generation of macrophage from placenta-derived hemogenic endothelium. <i>Developmental Cell</i> , 2021, 56, 2121-2133.e6.	3.1	25
11	Assessing the rate of aging to monitor aging itself. <i>Ageing Research Reviews</i> , 2021, 69, 101350.	5.0	24
12	Accurate loop calling for 3D genomic data with cLoops. <i>Bioinformatics</i> , 2020, 36, 666-675.	1.8	47
13	The Effects of Graded Levels of Calorie Restriction: XIV. Global Metabolomics Screen Reveals Brown Adipose Tissue Changes in Amino Acids, Catecholamines, and Antioxidants After Short-Term Restriction in C57BL/6 Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 218-229.	1.7	14
14	A human circulating immune cell landscape in aging and COVID-19. <i>Protein and Cell</i> , 2020, 11, 740-770.	4.8	179
15	The precursor of PI(3,4,5)P3 alleviates aging by activating daf-18(Pten) and independent of daf-16. <i>Nature Communications</i> , 2020, 11, 4496.	5.8	19
16	Three-dimensional facial-image analysis to predict heterogeneity of the human ageing rate and the impact of lifestyle. <i>Nature Metabolism</i> , 2020, 2, 946-957.	5.1	45
17	Ribosome 18S m6A Methyltransferase METTL5 Promotes Translation Initiation and Breast Cancer Cell Growth. <i>Cell Reports</i> , 2020, 33, 108544.	2.9	71
18	Individual variation of the SARS-CoV-2 receptor ACE2 gene expression and regulation. <i>Aging Cell</i> , 2020, 19, e13168.	3.0	343

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19	Characterization of functional transposable element enhancers in acute myeloid leukemia. <i>Science China Life Sciences</i> , 2020, 63, 675-687.	2.3	7
20	The Effects of Graded Levels of Calorie Restriction: XIII. Global Metabolomics Screen Reveals Graded Changes in Circulating Amino Acids, Vitamins, and Bile Acids in the Plasma of C57BL/6 Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 16-26.	1.7	14
21	Molecular architecture of lineage allocation and tissue organization in early mouse embryo. <i>Nature</i> , 2019, 572, 528-532.	13.7	163
22	The strand-biased mitochondrial DNA methylome and its regulation by DNMT3A. <i>Genome Research</i> , 2019, 29, 1622-1634.	2.4	62
23	A 3D Atlas of Hematopoietic Stem and Progenitor Cell Expansion by Multi-dimensional RNA-Seq Analysis. <i>Cell Reports</i> , 2019, 27, 1567-1578.e5.	2.9	45
24	Dynamics of Wnt activity on the acquisition of ectoderm potency in epiblast stem cells. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	18
25	A High-throughput Assay for the Prediction of Chemical Toxicity by Automated Phenotypic Profiling of <i>Caenorhabditis elegans</i> . <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	5
26	Immune Cell Types and Secreted Factors Contributing to Inflammation-to-Cancer Transition and Immune Therapy Response. <i>Cell Reports</i> , 2019, 26, 1965-1977.e4.	2.9	28
27	Widespread roles of enhancer-like transposable elements in cell identity and long-range genomic interactions. <i>Genome Research</i> , 2019, 29, 40-52.	2.4	45
28	Epigenomic, Transcriptome and Image-Based Biomarkers of Aging. <i>Healthy Ageing and Longevity</i> , 2019, , 47-66.	0.2	0
29	CXXC5 suppresses hepatocellular carcinoma by promoting TGF- β -induced cell cycle arrest and apoptosis. <i>Journal of Molecular Cell Biology</i> , 2018, 10, 48-59.	1.5	33
30	Regulatory network characterization in development: challenges and opportunities. <i>F1000Research</i> , 2018, 7, 1477.	0.8	4
31	Systems Biology in Aging Research. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1086, 1-15.	0.8	1
32	H3K14me3 genomic distributions and its regulation by KDM4 family demethylases. <i>Cell Research</i> , 2018, 28, 1118-1120.	5.7	13
33	Mouse gastrulation: Attributes of transcription factor regulatory network for epiblast patterning. <i>Development Growth and Differentiation</i> , 2018, 60, 463-472.	0.6	6
34	Inter-nucleosomal communication between histone modifications for nucleosome phasing. <i>PLoS Computational Biology</i> , 2018, 14, e1006416.	1.5	3
35	Single-cell RNA-sequencing reveals the existence of naive and primed pluripotency in pre-implantation rhesus monkey embryos. <i>Genome Research</i> , 2018, 28, 1481-1493.	2.4	25
36	HER2/EGFR- β -AKT Signaling Switches TGF- β from Inhibiting Cell Proliferation to Promoting Cell Migration in Breast Cancer. <i>Cancer Research</i> , 2018, 78, 6073-6085.	0.4	58

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37	Repression of human and mouse brain inflammaging transcriptome by broad gene-body histone hyperacetylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7611-7616.	3.3	55
38	Aging and Alzheimer's disease: Comparison and associations from molecular to system level. <i>Aging Cell</i> , 2018, 17, e12802.	3.0	180
39	Classification and prediction of toxicity of chemicals using an automated phenotypic profiling of <i>Caenorhabditis elegans</i> . <i>BMC Pharmacology & Toxicology</i> , 2018, 19, 18.	1.0	18
40	A gene regulatory network anchored by LIM homeobox 1 for embryonic head development. <i>Genesis</i> , 2018, 56, e23246.	0.8	6
41	The effects of graded levels of calorie restriction: IX. Global metabolomic screen reveals modulation of carnitines, sphingolipids and bile acids in the liver of C57BL/6 mice. <i>Aging Cell</i> , 2017, 16, 529-540.	3.0	48
42	Activin/Smad2-induced Histone H3 Lys-27 Trimethylation (H3K27me3) Reduction Is Crucial to Initiate Mesendoderm Differentiation of Human Embryonic Stem Cells. <i>Journal of Biological Chemistry</i> , 2017, 292, 1339-1350.	1.6	26
43	Transcriptome analyses of rhesus monkey preimplantation embryos reveal a reduced capacity for DNA double-strand break repair in primate oocytes and early embryos. <i>Genome Research</i> , 2017, 27, 567-579.	2.4	54
44	Spatial transcriptomic analysis of cryosectioned tissue samples with Geo-seq. <i>Nature Protocols</i> , 2017, 12, 566-580.	5.5	213
45	LIN-28 balances longevity and germline stem cell number in <i>Caenorhabditis elegans</i> through let-7/DAF-16 axis. <i>Aging Cell</i> , 2017, 16, 113-124.	3.0	18
46	Impact of Dietary Interventions on Noncoding RNA Networks and mRNAs Encoding Chromatin-Related Factors. <i>Cell Reports</i> , 2017, 18, 2957-2968.	2.9	42
47	The metabolic ER stress sensor IRE1 α suppresses alternative activation of macrophages and impairs energy expenditure in obesity. <i>Nature Immunology</i> , 2017, 18, 519-529.	7.0	279
48	Transcriptome analysis reveals determinant stages controlling human embryonic stem cell commitment to neuronal cells. <i>Journal of Biological Chemistry</i> , 2017, 292, 19590-19604.	1.6	29
49	The system capacity view of aging and longevity. <i>Quantitative Biology</i> , 2017, 5, 251-259.	0.3	2
50	Inference of differentiation time for single cell transcriptomes using cell population reference data. <i>Nature Communications</i> , 2017, 8, 1856.	5.8	30
51	The effects of graded levels of calorie restriction: V. Impact of short term calorie and protein restriction on physical activity in the C57BL/6 mouse. <i>Oncotarget</i> , 2016, 7, 19147-19170.	0.8	37
52	Dissecting the precise role of H3K9 methylation in crosstalk with DNA maintenance methylation in mammals. <i>Nature Communications</i> , 2016, 7, 12464.	5.8	94
53	Bioimaging for quantitative phenotype analysis. <i>Methods</i> , 2016, 102, 20-25.	1.9	12
54	Systems Approaches to Understanding Aging. , 2016, , 241-261.		1

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55	Spatial Transcriptome for the Molecular Annotation of Lineage Fates and Cell Identity in Mid-gastrula Mouse Embryo. <i>Developmental Cell</i> , 2016, 36, 681-697.	3.1	201
56	Understanding super-enhancers. <i>Science China Life Sciences</i> , 2016, 59, 277-280.	2.3	5
57	A Systems Approach to Reverse Engineer Lifespan Extension by Dietary Restriction. <i>Cell Metabolism</i> , 2016, 23, 529-540.	7.2	67
58	The effects of graded levels of calorie restriction: VI. Impact of short-term graded calorie restriction on transcriptomic responses of the hypothalamic hunger and circadian signaling pathways. <i>Aging</i> , 2016, 8, 642-661.	1.4	24
59	Single-cell-level spatial gene expression in the embryonic neural differentiation niche. <i>Genome Research</i> , 2015, 25, 570-581.	2.4	6
60	An advanced fragment analysis-based individualized subtype classification of pediatric acute lymphoblastic leukemia. <i>Scientific Reports</i> , 2015, 5, 12435.	1.6	12
61	Histone deacetylation promotes mouse neural induction by restricting Nodal-dependent mesendoderm fate. <i>Nature Communications</i> , 2015, 6, 6830.	5.8	25
62	Three-dimensional human facial morphologies as robust aging markers. <i>Cell Research</i> , 2015, 25, 574-587.	5.7	97
63	The effects of graded levels of calorie restriction: III. Impact of short term calorie and protein restriction on mean daily body temperature and torpor use in the C57BL/6 mouse. <i>Oncotarget</i> , 2015, 6, 18314-18337.	0.8	51
64	Aging phenomics enabled by quantitative imaging analysis. <i>Oncotarget</i> , 2015, 6, 16794-16795.	0.8	2
65	Approaches to uncovering cancer diagnostic and prognostic molecular signatures. <i>Molecular and Cellular Oncology</i> , 2014, 1, e957981.	0.3	1
66	Evolution of Alu Elements toward Enhancers. <i>Cell Reports</i> , 2014, 7, 376-385.	2.9	134
67	Targeting Ageing to Decrease Complex Non-Communicable Human Diseases. <i>Journal of Genetics and Genomics</i> , 2014, 41, 457-458.	1.7	0
68	Molecular mechanisms underlying genotype-dependent responses to dietary restriction. <i>Aging Cell</i> , 2013, 12, 1050-1061.	3.0	137
69	Understanding human diseases with high-throughput quantitative measurement and analysis of molecular signatures. <i>Science China Life Sciences</i> , 2013, 56, 213-219.	2.3	3
70	WormFarm: a quantitative control and measurement device toward automated <i>Caenorhabditis elegans</i> aging analysis. <i>Aging Cell</i> , 2013, 12, 398-409.	3.0	90
71	Epigenomics and the regulation of aging. <i>Epigenomics</i> , 2013, 5, 205-227.	1.0	52
72	Functional Dissection of Regulatory Models Using Gene Expression Data of Deletion Mutants. <i>PLoS Genetics</i> , 2013, 9, e1003757.	1.5	7

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73	Smooth Muscle Cells Differentiated From Reprogrammed Embryonic Lung Fibroblasts Through DKK3 Signaling Are Potent for Tissue Engineering of Vascular Grafts. <i>Circulation Research</i> , 2013, 112, 1433-1443.	2.0	83
74	Systematic Prediction of Pharmacodynamic Drug-Drug Interactions through Protein-Protein-Interaction Network. <i>PLoS Computational Biology</i> , 2013, 9, e1002998.	1.5	130
75	A novel Bayesian network inference algorithm for integrative analysis of heterogeneous deep sequencing data. <i>Cell Research</i> , 2013, 23, 440-443.	5.7	20
76	CoCiter: An Efficient Tool to Infer Gene Function by Assessing the Significance of Literature Co-Citation. <i>PLoS ONE</i> , 2013, 8, e74074.	1.1	36
77	Apoptosin is a Novel Pro-Apoptotic Protein and Mediates Cell Death in Neurodegeneration. <i>Journal of Neuroscience</i> , 2012, 32, 15565-15576.	1.7	58
78	Midlife gene expressions identify modulators of aging through dietary interventions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1201-9.	3.3	57
79	Direct reprogramming of fibroblasts into endothelial cells capable of angiogenesis and reendothelialization in tissue-engineered vessels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13793-13798.	3.3	235
80	BMP4 Signaling Acts via Dual-Specificity Phosphatase 9 to Control ERK Activity in Mouse Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2012, 10, 171-182.	5.2	134
81	Stress-associated H ³ K ⁴ methylation accumulates during postnatal development and aging of rhesus macaque brain. <i>Aging Cell</i> , 2012, 11, 1055-1064.	3.0	44
82	Histone Demethylase UTX-1 Regulates C.Âlegans Life Span by Targeting the Insulin/IGF-1 Signaling Pathway. <i>Cell Metabolism</i> , 2011, 14, 161-172.	7.2	206
83	Epigenetic regulation by nuclear receptors. <i>Epigenomics</i> , 2011, 3, 59-72.	1.0	29
84	Ab initio identification of transcription start sites in the Rhesus macaque genome by histone modification and RNA-Seq. <i>Nucleic Acids Research</i> , 2011, 39, 1408-1418.	6.5	19
85	PKA phosphorylation couples hepatic inositol-requiring enzyme 1Î± to glucagon signaling in glucose metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15852-15857.	3.3	76
86	Application of Bayesian networks on large-scale biological data. <i>Frontiers in Biology</i> , 2010, 5, 98-104.	0.7	5
87	Smad2 mediates Activin/Nodal signaling in mesendoderm differentiation of mouse embryonic stem cells. <i>Cell Research</i> , 2010, 20, 1306-1318.	5.7	62
88	Genome-wide mapping of SMAD target genes reveals the role of BMP signaling in embryonic stem cell fate determination. <i>Genome Research</i> , 2010, 20, 36-44.	2.4	108
89	Impacts of proteinâ€“protein interaction domains on organism and network complexity. <i>Genome Research</i> , 2008, 18, 1500-1508.	2.4	42
90	Inferring causal relationships among different histone modifications and gene expression. <i>Genome Research</i> , 2008, 18, 1314-1324.	2.4	116

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91	MicroRNA miR-24 inhibits erythropoiesis by targeting activin type I receptor ALK4. <i>Blood</i> , 2008, 111, 588-595.	0.6	195
92	Confirmation of Organized Modularity in the Yeast Interactome. <i>PLoS Biology</i> , 2007, 5, e153.	2.6	86
93	A modular network model of aging. <i>Molecular Systems Biology</i> , 2007, 3, 147.	3.2	151
94	Network modeling links breast cancer susceptibility and centrosome dysfunction. <i>Nature Genetics</i> , 2007, 39, 1338-1349.	9.4	602
95	Comparing the biological coherence of network clusters identified by different detection algorithms. <i>Science Bulletin</i> , 2007, 52, 2938-2944.	1.7	5
96	Reply to Toward the complete interactome. <i>Nature Biotechnology</i> , 2006, 24, 615-615.	9.4	1
97	IntNetDB v1.0: an integrated protein-protein interaction network database generated by a probabilistic model. <i>BMC Bioinformatics</i> , 2006, 7, 508.	1.2	73
98	Identification of the Proliferation/Differentiation Switch in the Cellular Network of Multicellular Organisms. <i>PLoS Computational Biology</i> , 2006, 2, e145.	1.5	91
99	Effect of sampling on topology predictions of protein-protein interaction networks. <i>Nature Biotechnology</i> , 2005, 23, 839-844.	9.4	302
100	Predictive models of molecular machines involved in <i>Caenorhabditis elegans</i> early embryogenesis. <i>Nature</i> , 2005, 436, 861-865.	13.7	260
101	Annotation Transfer Between Genomes: Protein-Protein Interologs and Protein-DNA Regulogs. <i>Genome Research</i> , 2004, 14, 1107-1118.	2.4	516
102	Evidence for dynamically organized modularity in the yeast protein-protein interaction network. <i>Nature</i> , 2004, 430, 88-93.	13.7	1,683
103	A Map of the Interactome Network of the Metazoan <i>C. elegans</i> . <i>Science</i> , 2004, 303, 540-543.	6.0	1,587
104	A 3D Atlas of Hematopoietic Stem and Progenitor Cell Expansion by Multi-Dimensional RNA-Seq Analysis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
105	Immunosuppression Induced by Brain-Specific HDAC6 Knockdown Improves Aging Performance in <i>Drosophila melanogaster</i> . <i>Phenomics</i> , 0, , 1.	0.9	0