Xing Dai

List of Publications by Year
in descending order

56 papers	2,766 citations	186265 28 h-index	189892 50 g-index
59 all docs	59 docs citations	59 times ranked	3876 citing authors

#	Article	IF	Citations
1	An Ovol2-Zeb1 Mutual Inhibitory Circuit Governs Bidirectional and Multi-step Transition between Epithelial and Mesenchymal States. PLoS Computational Biology, 2015, 11, e1004569.	3.2	245
2	Mammary Morphogenesis and Regeneration Require the Inhibition of EMT at Terminal End Buds by Ovol2 Transcriptional Repressor. Developmental Cell, 2014, 29, 59-74.	7.0	175
3	Epithelialâ€toâ€mesenchymal transition in cutaneous wound healing: Where we are and where we are heading. Developmental Dynamics, 2018, 247, 473-480.	1.8	153
4	MiR-31 promotes mammary stem cell expansion and breast tumorigenesis by suppressing Wnt signaling antagonists. Nature Communications, 2017, 8, 1036.	12.8	143
5	Defining Epidermal Basal Cell States during Skin Homeostasis and Wound Healing Using Single-Cell Transcriptomics. Cell Reports, 2020, 30, 3932-3947.e6.	6.4	139
6	Ovol1 regulates the growth arrest of embryonic epidermal progenitor cells and represses c-myc transcription. Journal of Cell Biology, 2006, 173, 253-264.	5.2	117
7	Pygo2 expands mammary progenitor cells by facilitating histone H3 K4 methylation. Journal of Cell Biology, 2009, 185, 811-826.	5.2	113
8	Transcriptional Mechanisms Link Epithelial Plasticity to Adhesion and Differentiation of Epidermal Progenitor Cells. Developmental Cell, 2014, 29, 47-58.	7.0	110
9	Transcriptional control of epidermal specification and differentiation. Current Opinion in Genetics and Development, 2004, 14, 485-491.	3.3	83
10	Intermediate cell states in epithelial-to-mesenchymal transition. Physical Biology, 2019, 16, 021001.	1.8	78
11	Cytokeratin expression during mouse embryonic and early postnatal mammary gland development. Histochemistry and Cell Biology, 2010, 133, 213-221.	1.7	77
12	Chromatin Effector Pygo2 Mediates Wnt-Notch Crosstalk to Suppress Luminal/Alveolar Potential of Mammary Stem and Basal Cells. Cell Stem Cell, 2013, 13, 48-61.	11.1	75
13	Pygo2 Associates with MLL2 Histone Methyltransferase and GCN5 Histone Acetyltransferase Complexes To Augment Wnt Target Gene Expression and Breast Cancer Stem-Like Cell Expansion. Molecular and Cellular Biology, 2010, 30, 5621-5635.	2.3	73
14	Nuclear regulator Pygo2 controls spermiogenesis and histone H3 acetylation. Developmental Biology, 2008, 320, 446-455.	2.0	72
15	Ovol1 regulates meiotic pachytene progression during spermatogenesis by repressing Id2 expression. Development (Cambridge), 2005, 132, 1463-1473.	2.5	60
16	The mouse Ovol2 gene is required for cranial neural tube development. Developmental Biology, 2006, 291, 38-52.	2.0	58
17	Integrative multicellular biological modeling: a case study of 3D epidermal development using GPU algorithms. BMC Systems Biology, 2010, 4, 107.	3.0	58
18	Strain-dependent perinatal lethality of Ovol1-deficient mice and identification of Ovol2 as a downstream target of Ovol1 in skin epidermis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 89-95.	3.8	57

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19	Developmental phenotypes and reduced Wnt signaling in mice deficient forpygopus 2. Genesis, 2007, 45, 318-325.	1.6	54
20	The LEF1/Â-catenin complex activates movo1, a mouse homolog of Drosophila ovo required for epidermal appendage differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6064-6069.	7.1	53
21	Pygopus and the Wnt signaling pathway: A diverse set of connections. BioEssays, 2008, 30, 448-456.	2.5	53
22	Ovol2 Suppresses Cell Cycling and Terminal Differentiation of Keratinocytes by Directly Repressing c-Myc and Notch1. Journal of Biological Chemistry, 2009, 284, 29125-29135.	3.4	53
23	Ovol2, a Mammalian Homolog of Drosophila ovo: Gene Structure, Chromosomal Mapping, and Aberrant Expression in Blind-Sterile Mice. Genomics, 2002, 80, 319-325.	2.9	50
24	Integrative ChIP-seq/Microarray Analysis Identifies a CTNNB1 Target Signature Enriched in Intestinal Stem Cells and Colon Cancer. PLoS ONE, 2014, 9, e92317.	2.5	41
25	Ovol1 represses its own transcription by competing with transcription activator c-Myb and by recruiting histone deacetylase activity. Nucleic Acids Research, 2007, 35, 1687-1697.	14.5	37
26	Integrated Single-Cell Transcriptomics and Chromatin Accessibility Analysis Reveals Regulators of Mammary Epithelial Cell Identity. Cell Reports, 2020, 33, 108273.	6.4	36
27	Synthetic and Isolation Studies Related to the Marine Natural Products (+)-Elisabethadione and (+)-Elisabethamine. Journal of Organic Chemistry, 2007, 72, 1895-1900.	3.2	35
28	An Ovol2â€Zeb1 transcriptional circuit regulates epithelial directional migration and proliferation. EMBO Reports, 2019, 20, .	4.5	32
29	Formal Enantioselective [4+3] Cycloaddition by a Tandem Dielsâ€"Alder Reaction/Ring Expansion. Advanced Synthesis and Catalysis, 2006, 348, 2449-2456.	4.3	29
30	Epithelial stem cells: An epigenetic and wntâ€centric perspective. Journal of Cellular Biochemistry, 2010, 110, 1279-1287.	2.6	27
31	Immunogenicity difference between two hepatitis E vaccines derived from genotype 1 and 4. Antiviral Research, 2016, 128, 36-42.	4.1	27
32	Cloning and developmental expression of mouse pygopus 2, a putative Wnt signaling componentâ˜†. Genomics, 2004, 84, 398-405.	2.9	26
33	Pygo2 regulates histone gene expression and H3 K56 acetylation in human mammary epithelial cells. Cell Cycle, 2012, 11, 79-87.	2.6	25
34	Computational modelling of epidermal stratification highlights the importance of asymmetric cell division for predictable and robust layer formation. Journal of the Royal Society Interface, 2014, 11, 20140631.	3.4	25
35	Lgr4 is crucial for skin carcinogenesis by regulating MEK/ERK and Wnt/Î²-catenin signaling pathways. Cancer Letters, 2016, 383, 161-170.	7.2	25
36	Analysis of mPygo2 mutant mice suggests a requirement for mesenchymal Wnt signaling in pancreatic growth and differentiation. Developmental Biology, 2008, 318, 224-235.	2.0	24

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37	Coordinate control of basal epithelial cell fate and stem cell maintenance by core EMT transcription factor Zeb1. Cell Reports, 2022, 38, 110240.	6.4	24
38	Pygo2 regulates Î²-cateninâ€"induced activation of hair follicle stem/progenitor cells and skin hyperplasia. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10215-10220.	7.1	21
39	Multiscale modeling of layer formation in epidermis. PLoS Computational Biology, 2018, 14, e1006006.	3.2	21
40	A WNTer Revisit: New Faces of Î²-Catenin and TCFs in Pluripotency. Science Signaling, 2011, 4, pe41.	3.6	20
41	The Msi1-mTOR pathway drives the pathogenesis of mammary and extramammary Pagetâ€™s disease. Cell Research, 2020, 30, 854-872.	12.0	17
42	Memory beyond immunity. Nature, 2017, 550, 460-461.	27.8	15
43	IL-17A Promotes Psoriasis-Associated Keratinocyte Proliferation through ACT1-Dependent Activation of YAPâ€"AREG Axis. Journal of Investigative Dermatology, 2022, 142, 2343-2352.	0.7	15
44	Lgr4 Deletion Delays the Hair Cycle and Inhibits the Activation of Hair Follicle Stem Cells. Journal of Investigative Dermatology, 2020, 140, 1706-1712.e4.	0.7	14
45	The Co-factor of LIM Domains (CLIM/LDB/NLI) Maintains Basal Mammary Epithelial Stem Cells and Promotes Breast Tumorigenesis. PLoS Genetics, 2014, 10, e1004520.	3.5	13
46	OVOL1 Regulates Psoriasis-Like Skin Inflammation and Epidermal Hyperplasia. Journal of Investigative Dermatology, 2021, 141, 1542-1552.	0.7	13
47	Akt Phosphorylates Wnt Coactivator and Chromatin Effector Pygo2 at Serine 48 to Antagonize Its Ubiquitin/Proteasome-mediated Degradation. Journal of Biological Chemistry, 2015, 290, 21553-21567.	3.4	10
48	Epidermis-Intrinsic Transcription Factor Ovol1 Coordinately Regulates Barrier Maintenance and Neutrophil Accumulation in Psoriasis-Like Inflammation. Journal of Investigative Dermatology, 2022, 142, 583-593.e5.	0.7	10
49	Identification of specific antigenic epitope at N-terminal segment of enterovirus 71 (EV-71) VP1 protein and characterization of its use in recombinant form for early diagnosis of EV-71 infection. Virus Research, 2014, 189, 248-253.	2.2	8
50	Overexpression of Transcription Factor Ovol2 in Epidermal Progenitor Cells Results in Skin Blistering. Journal of Investigative Dermatology, 2017, 137, 1805-1808.	0.7	7
51	Defining mammary basal cell transcriptional states using single-cell RNA-sequencing. Scientific Reports, 2022, 12, 4893.	3.3	7
52	Transcriptional Control of Epidermal Stem Cells. Advances in Experimental Medicine and Biology, 2013, 786, 157-173.	1.6	4
53	Ex Vivo Imaging and Genetic Manipulation of Mouse Hair Follicle Bulge Stem Cells. Methods in Molecular Biology, 2018, 1879, 15-29.	0.9	2
54	Dormant Nfatc1 reporter-marked basal stem/progenitor cells contribute to mammary lobuloalveoli formation. IScience, 2022, 25, 103982.	4.1	2

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55	Altered Epithelial-mesenchymal Plasticity as a Result of Ovol2 Deletion Minimally Impacts the Self-renewal of Adult Mammary Basal Epithelial Cells. Journal of Mammary Gland Biology and Neoplasia, 2021, 26, 377-386.	2.7	1
56	Nfatc1â€™s Role in Mammary Epithelial Morphogenesis and Basal Stem/progenitor Cell Self-renewal. Journal of Mammary Gland Biology and Neoplasia, 2021, 26, 357-365.	2.7	1