

Rajan Jain

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

5,150
citations

172457
29
h-index

206112
48
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56
all docs

56
docs citations

56
times ranked

8424
citing authors

#	ARTICLE	IF	CITATIONS
1	Repair and Regeneration of the Respiratory System: Complexity, Plasticity, and Mechanisms of Lung Stem Cell Function. <i>Cell Stem Cell</i> , 2014, 15, 123-138.	11.1	748
2	Interconversion Between Intestinal Stem Cell Populations in Distinct Niches. <i>Science</i> , 2011, 334, 1420-1424.	12.6	638
3	Targeting cardiac fibrosis with engineered T cells. <i>Nature</i> , 2019, 573, 430-433.	27.8	404
4	Mapping the Pairwise Choices Leading from Pluripotency to Human Bone, Heart, and Other Mesoderm Cell Types. <i>Cell</i> , 2016, 166, 451-467.	28.9	367
5	Intestinal Enteroendocrine Lineage Cells Possess Homeostatic and Injury-Inducible Stem Cell Activity. <i>Cell Stem Cell</i> , 2017, 21, 78-90.e6.	11.1	280
6	Plasticity of Hopx ⁺ type I alveolar cells to regenerate type II cells in the lung. <i>Nature Communications</i> , 2015, 6, 6727.	12.8	254
7	A Common Embryonic Origin of Stem Cells Drives Developmental and Adult Neurogenesis. <i>Cell</i> , 2019, 177, 654-668.e15.	28.9	186
8	In utero CRISPR-mediated therapeutic editing of metabolic genes. <i>Nature Medicine</i> , 2018, 24, 1513-1518.	30.7	169
9	Genome-Nuclear Lamina Interactions Regulate Cardiac Stem Cell Lineage Restriction. <i>Cell</i> , 2017, 171, 573-587.e14.	28.9	162
10	Murine Jagged1/Notch signaling in the second heart field orchestrates Fgf8 expression and tissue-tissue interactions during outflow tract development. <i>Journal of Clinical Investigation</i> , 2009, 119, 1986-96.	8.2	155
11	Cardiac neural crest orchestrates remodeling and functional maturation of mouse semilunar valves. <i>Journal of Clinical Investigation</i> , 2011, 121, 422-430.	8.2	142
12	Integration of Bmp and Wnt signaling by Hopx specifies commitment of cardiomyoblasts. <i>Science</i> , 2015, 348, aaa6071.	12.6	132
13	β ² -Hydroxybutyrate suppresses colorectal cancer. <i>Nature</i> , 2022, 605, 160-165.	27.8	120
14	Early lineage specification defines alveolar epithelial ontogeny in the murine lung. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4362-4371.	7.1	116
15	A transcriptional switch governs fibroblast activation in heart disease. <i>Nature</i> , 2021, 595, 438-443.	27.8	100
16	Single-Cell Analysis of Proxy Reporter Allele-Marked Epithelial Cells Establishes Intestinal Stem Cell Hierarchy. <i>Stem Cell Reports</i> , 2014, 3, 876-891.	4.8	93
17	H3K9me2 orchestrates inheritance of spatial positioning of peripheral heterochromatin through mitosis. <i>ELife</i> , 2019, 8, .	6.0	81
18	Hippo signaling is required for Notch-dependent smooth muscle differentiation of neural crest. <i>Development (Cambridge)</i> , 2015, 142, 2962-71.	2.5	79

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19	A Balance Between Intermediate Filaments and Microtubules Maintains Nuclear Architecture in the Cardiomyocyte. <i>Circulation Research</i> , 2020, 126, e10-e26.	4.5	70
20	Circadian control of bile acid synthesis by a KLF15-Fgf15 axis. <i>Nature Communications</i> , 2015, 6, 7231.	12.8	68
21	Foxa2 identifies a cardiac progenitor population with ventricular differentiation potential. <i>Nature Communications</i> , 2017, 8, 14428.	12.8	68
22	Core Components of the Nuclear Pore Bind Distinct States of Chromatin and Contribute to Polycomb Repression. <i>Molecular Cell</i> , 2020, 77, 67-81.e7.	9.7	66
23	<i>Hopx</i> expression defines a subset of multipotent hair follicle stem cells and a progenitor population primed to give rise to K6+ niche cells. <i>Development (Cambridge)</i> , 2013, 140, 1655-1664.	2.5	65
24	Pathogenic LMNA variants disrupt cardiac lamina-chromatin interactions and de-repress alternative fate genes. <i>Cell Stem Cell</i> , 2021, 28, 938-954.e9.	11.1	61
25	Chromatin and Transcriptional Analysis of Mesoderm Progenitor Cells Identifies HOPX as a Regulator of Primitive Hematopoiesis. <i>Cell Reports</i> , 2017, 20, 1597-1608.	6.4	50
26	Notch and cardiac outflow tract development. <i>Annals of the New York Academy of Sciences</i> , 2010, 1188, 184-190.	3.8	48
27	BRD4 orchestrates genome folding to promote neural crest differentiation. <i>Nature Genetics</i> , 2021, 53, 1480-1492.	21.4	48
28	Hopx distinguishes hippocampal from lateral ventricle neural stem cells. <i>Stem Cell Research</i> , 2015, 15, 522-529.	0.7	41
29	Peripherally Induced Tolerance Depends on Peripheral Regulatory T Cells That Require Hopx To Inhibit Intrinsic IL-2 Expression. <i>Journal of Immunology</i> , 2015, 195, 1489-1497.	0.8	38
30	In utero adenine base editing corrects multi-organ pathology in a lethal lysosomal storage disease. <i>Nature Communications</i> , 2021, 12, 4291.	12.8	32
31	BRD4 (Bromodomain-Containing Protein 4) Interacts with GATA4 (GATA Binding Protein 4) to Govern Mitochondrial Homeostasis in Adult Cardiomyocytes. <i>Circulation</i> , 2020, 142, 2338-2355.	1.6	31
32	S-Nitrosylation of Histone Deacetylase 2 by Neuronal Nitric Oxide Synthase as a Mechanism of Diastolic Dysfunction. <i>Circulation</i> , 2021, 143, 1912-1925.	1.6	28
33	Endocardial Hippo signaling regulates myocardial growth and cardiogenesis. <i>Developmental Biology</i> , 2018, 440, 22-30.	2.0	26
34	The Genetic Landscape of Hematopoietic Stem Cell Frequency in Mice. <i>Stem Cell Reports</i> , 2015, 5, 125-138.	4.8	21
35	Lineage-specific reorganization of nuclear peripheral heterochromatin and H3K9me2 domains. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	18
36	Responsiveness to perturbations is a hallmark of transcription factors that maintain cell identity in vitro. <i>Cell Systems</i> , 2021, 12, 885-899.e8.	6.2	17

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37	Global chromatin relabeling accompanies spatial inversion of chromatin in rod photoreceptors. <i>Science Advances</i> , 2021, 7, eabj3035.	10.3	16
38	Picking Winners and Losers: Cell Competition in Tissue Development and Homeostasis. <i>Trends in Genetics</i> , 2020, 36, 490-498.	6.7	16
39	Identification of a molecular basis for the juvenile sleep state. <i>ELife</i> , 2020, 9, .	6.0	15
40	Pdgfr β functions in endothelial-derived cells to regulate neural crest cells and development of the great arteries. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 1101-1108.	2.4	14
41	Cell type determination for cardiac differentiation occurs soon after seeding of human-induced pluripotent stem cells. <i>Genome Biology</i> , 2022, 23, 90.	8.8	13
42	Competent for commitment: you've got to have heart!. <i>Genes and Development</i> , 2018, 32, 4-13.	5.9	10
43	EZ Switch From EZH2 to EZH1. <i>Circulation Research</i> , 2017, 121, 91-94.	4.5	9
44	A LAMP sequencing approach for high-throughput co-detection of SARS-CoV-2 and influenza virus in human saliva. <i>ELife</i> , 2022, 11, .	6.0	6
45	Landscape of Hopx expression in cells of the immune system. <i>Heliyon</i> , 2021, 7, e08311.	3.2	4
46	Not all stress is bad for your heart. <i>Science</i> , 2021, 374, 264-265.	12.6	3
47	Beating the odds: programming proliferation in the mammalian heart. <i>Genome Medicine</i> , 2018, 10, 36.	8.2	2