David Sprinzak

List of Publications by Year in descending order

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44 papers	3,103 citations	361045 20 h-index	360668 35 g-index
57 all docs	57 docs citations	57 times ranked	4598 citing authors

#	Article	IF	Citations
1	Cis-interactions between Notch and Delta generate mutually exclusive signalling states. Nature, 2010, 465, 86-90.	13.7	559
2	Reconstruction of genetic circuits. Nature, 2005, 438, 443-448.	13.7	327
3	The Canonical Notch Signaling Pathway: Structural and Biochemical Insights into Shape, Sugar, and Force. Developmental Cell, 2017, 41, 228-241.	3.1	291
4	Dynamic Ligand Discrimination in the Notch Signaling Pathway. Cell, 2018, 172, 869-880.e19.	13.5	246
5	Endothelial Notch1 Activity Facilitates Metastasis. Cancer Cell, 2017, 31, 355-367.	7.7	237
6	Scanning electron microscopy of cells and tissues under fully hydrated conditions. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3346-3351.	3.3	221
7	Cell-Cell Contact Area Affects Notch Signaling and Notch-Dependent Patterning. Developmental Cell, 2017, 40, 505-511.e6.	3.1	146
8	Mutual Inactivation of Notch Receptors and Ligands Facilitates Developmental Patterning. PLoS Computational Biology, 2011, 7, e1002069.	1.5	134
9	Fringe proteins modulate Notch-ligand cis and trans interactions to specify signaling states. ELife, 2014, 3, e02950.	2.8	105
10	Biophysics of Notch Signaling. Annual Review of Biophysics, 2021, 50, 157-189.	4.5	103
11	Genetic and Mechanical Regulation of Intestinal Smooth Muscle Development. Cell, 2019, 179, 90-105.e21.	13.5	95
12	Interactions of Melanoma Cells with Distal Keratinocytes Trigger Metastasis via Notch Signaling Inhibition of MITF. Molecular Cell, 2015, 59, 664-676.	4.5	85
13	Notch-Mediated Tumor-Stroma-Inflammation Networks Promote Invasive Properties and CXCL8 Expression in Triple-Negative Breast Cancer. Frontiers in Immunology, 2019, 10, 804.	2.2	65
14	The cis side of juxtacrine signaling: a new role in the development of the nervous system. Trends in Neurosciences, 2012, 35, 230-239.	4.2	45
15	Quantitative Analysis of Delta-like 1 Membrane Dynamics Elucidates the Role of Contact Geometry on Notch Signaling. Cell Reports, 2016, 14, 225-233.	2.9	42
16	Notch ligand Dll4 impairs cell recruitment to aortic clusters and limits blood stem cell generation. EMBO Journal, 2020, 39, e104270.	3.5	40
17	Neonatal AAV gene therapy rescues hearing in a mouse model of SYNE4 deafness. EMBO Molecular Medicine, 2021, 13, e13259.	3.3	39
18	Mechanical forces drive ordered patterning of hair cells in the mammalian inner ear. Nature Communications, 2020, 11, 5137.	5.8	38

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19	The GPSM2/LGN GoLoco motifs are essential for hearing. Mammalian Genome, 2016, 27, 29-46.	1.0	34
20	Roadmap for the multiscale coupling of biochemical and mechanical signals during development. Physical Biology, 2021, 18, 041501.	0.8	29
21	Dynamic spatiotemporal coordination of neural stem cell fate decisions occurs through local feedback in the adult vertebrate brain. Cell Stem Cell, 2021, 28, 1457-1472.e12.	5.2	29
22	Ankrd6 is a mammalian functional homolog of Drosophila planar cell polarity gene diego and regulates coordinated cellular orientation in the mouse inner ear. Developmental Biology, 2014, 395, 62-72.	0.9	28
23	MPDZ promotes DLL4-induced Notch signaling during angiogenesis. ELife, 2018, 7, .	2.8	22
24	Modeling the Notch Response. Advances in Experimental Medicine and Biology, 2018, 1066, 79-98.	0.8	22
25	Ballistic transport of holes and phonon replicas in lightly doped GaAs. Physical Review B, 1997, 55, R10185-R10188.	1.1	16
26	Juxtacrine Signaling Is Inherently Noisy. Biophysical Journal, 2014, 107, 2417-2424.	0.2	15
27	A synthetic planar cell polarity system reveals localized feedback on Fat4-Ds1 complexes. ELife, 2017, 6, .	2.8	15
28	Modeling Notch Signaling: A Practical Tutorial. Methods in Molecular Biology, 2014, 1187, 285-310.	0.4	13
29	Enhancer architecture sensitizes cell specific responses to Notch gene dose via a bind and discard mechanism. ELife, 2020, 9, .	2.8	13
30	Notch dimerization and gene dosage are important for normal heart development, intestinal stem cell maintenance, and splenic marginal zone B-cell homeostasis during mite infestation. PLoS Biology, 2020, 18, e3000850.	2.6	11
31	Mechanical forces shaping the development of the inner ear. Biophysical Journal, 2021, 120, 4142-4148.	0.2	9
32	Enhancers with cooperative Notch binding sites are more resistant to regulation by the Hairless co-repressor. PLoS Genetics, 2021, 17, e1009039.	1.5	4
33	The lipidâ€binding side of Notch ligands. EMBO Journal, 2017, 36, 2182-2183.	3.5	3
34	The Domino Effect in EGFR-ERK Signaling. Developmental Cell, 2018, 46, 128-130.	3.1	2
35	Modelling cell surface dynamics and cellâ€“cell interactions using Cell Studio: a three-dimensional visualization tool based on gaming technology. Journal of the Royal Society Interface, 2019, 16, 20190264.	1.5	1
36	NOTCH LIGAND DLL4 CONTROLS THE RECRUITMENT OF HEMOGENIC CELLS INTO THE INTRA-AORTIC CLUSTERS AND CONSEQUENTLY PRODUCTION OF HEMATOPOIETIC STEM CELLS. Experimental Hematology, 2019, 76, S58-S59.	0.2	0

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37	Title is missing!. , 2020, 18, e3000850.		0
38	Title is missing!. , 2020, 18, e3000850.		0
39	Title is missing!. , 2020, 18, e3000850.		0
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