

David L Paul

List of Publications by Year in descending order

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52
papers

9,311
citations

81900

39
h-index

175258

52
g-index

52
all docs

52
docs citations

52
times ranked

6163
citing authors

#	ARTICLE	IF	CITATIONS
1	Connections with Connexins: the Molecular Basis of Direct Intercellular Signaling. FEBS Journal, 1996, 238, 1-27.	0.2	1,190
2	Female infertility in mice lacking connexin 37. Nature, 1997, 385, 525-529.	27.8	651
3	Beyond the gap: functions of unpaired connexon channels. Nature Reviews Molecular Cell Biology, 2003, 4, 285-295.	37.0	645
4	Synchronous Activity of Inhibitory Networks in Neocortex Requires Electrical Synapses Containing Connexin36. Neuron, 2001, 31, 477-485.	8.1	533
5	Connexin family of gap junction proteins. Journal of Membrane Biology, 1990, 116, 187-194.	2.1	530
6	Gap junctions in the rat cochlea: immunohistochemical and ultrastructural analysis. Anatomy and Embryology, 1995, 191, 101-118.	1.5	520
7	Gap Junctions. Cold Spring Harbor Perspectives in Biology, 2009, 1, a002576-a002576.	5.5	498
8	Connexin36 Is Essential for Transmission of Rod-Mediated Visual Signals in the Mammalian Retina. Neuron, 2002, 36, 703-712.	8.1	390
9	GENETIC DISEASES AND GENE KNOCKOUTS REVEAL DIVERSE CONNEXIN FUNCTIONS. Annual Review of Physiology, 1999, 61, 283-310.	13.1	375
10	Targeted Ablation of Connexin50 in Mice Results in Microphthalmia and Zonular Pulverulent Cataracts. Journal of Cell Biology, 1998, 143, 815-825.	5.2	327
11	Connexins Are Critical for Normal Myelination in the CNS. Journal of Neuroscience, 2003, 23, 5963-5973.	3.6	279
12	Functional defects of Cx26 resulting from a heterozygous missense mutation in a family with dominant deaf-mutism and palmoplantar keratoderma. Human Genetics, 1998, 103, 393-399.	3.8	272
13	Connexin43 Is Highly Localized to Sites of Disturbed Flow in Rat Aortic Endothelium but Connexin37 and Connexin40 Are More Uniformly Distributed. Circulation Research, 1998, 83, 636-643.	4.5	257
14	Connexin29 Is Uniquely Distributed within Myelinating Glial Cells of the Central and Peripheral Nervous Systems. Journal of Neuroscience, 2002, 22, 6458-6470.	3.6	223
15	Connexins: functions without junctions. Current Opinion in Cell Biology, 2004, 16, 507-512.	5.4	164
16	Convergence and Segregation of the Multiple Rod Pathways in Mammalian Retina. Journal of Neuroscience, 2004, 24, 11182-11192.	3.6	162
17	trans-dominant inhibition of connexin-43 by mutant connexin-26: implications for dominant connexin disorders affecting epidermal differentiation. Journal of Cell Science, 2001, 114, 2105-2113.	2.0	162
18	Four Classes of Intercellular Channels between Glial Cells in the CNS. Journal of Neuroscience, 2004, 24, 4313-4323.	3.6	155

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19	Genetic and Physiological Evidence That Oligodendrocyte Gap Junctions Contribute to Spatial Buffering of Potassium Released during Neuronal Activity. <i>Journal of Neuroscience</i> , 2006, 26, 10984-10991.	3.6	151
20	Unique distributions of the gap junction proteins connexin29, connexin32, and connexin47 in oligodendrocytes. <i>Glia</i> , 2004, 47, 346-357.	4.9	135
21	Expression of gap junction proteins Cx26, Cx31.1, Cx37, and Cx43 in developing and mature rat epidermis. <i>Developmental Dynamics</i> , 1994, 200, 1-13.	1.8	129
22	Connexin mutations in deafness. <i>Nature</i> , 1998, 394, 630-631.	27.8	119
23	Occludin 1B, a Variant of the Tight Junction Protein Occludin. <i>Molecular Biology of the Cell</i> , 2000, 11, 627-634.	2.1	112
24	Gap Junction Systems in the Rat Vestibular Labyrinth: Immunohistochemical and Ultrastructural Analysis. <i>Acta Oto-Laryngologica</i> , 1994, 114, 520-528.	0.9	96
25	Morphology and tracer coupling pattern of alpha ganglion cells in the mouse retina. <i>Journal of Comparative Neurology</i> , 2005, 492, 66-77.	1.6	92
26	Genetic Dissection of Rod and Cone Pathways in the Dark-Adapted Mouse Retina. <i>Journal of Neurophysiology</i> , 2009, 102, 1945-1955.	1.8	85
27	Deletion of oligodendrocyte Cx32 and astrocyte Cx43 causes white matter vacuolation, astrocyte loss and early mortality. <i>Glia</i> , 2011, 59, 1064-1074.	4.9	84
28	Connexin29 Is Highly Expressed in Cochlear Schwann Cells, and It Is Required for the Normal Development and Function of the Auditory Nerve of Mice. <i>Journal of Neuroscience</i> , 2006, 26, 1991-1999.	3.6	72
29	Cx29 and Cx32, two connexins expressed by myelinating glia, do not interact and are functionally distinct. <i>Journal of Neuroscience Research</i> , 2008, 86, 992-1006.	2.9	71
30	Functional heterotypic interactions between astrocyte and oligodendrocyte connexins. <i>Glia</i> , 2011, 59, 26-34.	4.9	70
31	A targeted disruption in connexin40 leads to distinct atrioventricular conduction defects. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2000, 4, 459-567.	1.3	66
32	Multiplexed peroxidase-based electron microscopy labeling enables simultaneous visualization of multiple cell types. <i>Nature Neuroscience</i> , 2019, 22, 828-839.	14.8	62
33	Zygotic expression of the connexin43 gene supplies subunits for gap junction assembly during mouse preimplantation development. <i>Molecular Reproduction and Development</i> , 1991, 30, 18-26.	2.0	57
34	Voltage gating of connexins. <i>Nature</i> , 1994, 371, 208-209.	27.8	56
35	Connexin32, a gap junction protein, is a persistent oogenetic product through preimplantation development of the mouse. <i>Genesis</i> , 1989, 10, 318-323.	2.1	55
36	Gap Junction-Mediated Death of Retinal Neurons Is Connexin and Insult Specific: A Potential Target for Neuroprotection. <i>Journal of Neuroscience</i> , 2014, 34, 10582-10591.	3.6	54

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37	The extracellular matrix controls gap junction protein expression and function in postnatal hippocampal neural progenitor cells. <i>BMC Neuroscience</i> , 2009, 10, 13.	1.9	50
38	Gap Junctions Contribute to Differential Light Adaptation across Direction-Selective Retinal Ganglion Cells. <i>Neuron</i> , 2018, 100, 216-228.e6.	8.1	47
39	Mouse Horizontal Cells do not Express Connexin26 or Connexin36. <i>Cell Communication and Adhesion</i> , 2001, 8, 361-366.	1.0	46
40	Proliferation-associated differences in the spatial and temporal expression of gap junction genes in rat liver. <i>Hepatology</i> , 1995, 22, 202-212.	7.3	45
41	Segregated Foxc2, NFATc1 and Connexin expression at normal developing venous valves, and Connexin-specific differences in the valve phenotypes of Cx37, Cx43, and Cx47 knockout mice. <i>Developmental Biology</i> , 2016, 412, 173-190.	2.0	36
42	Molecular and functional architecture of the mouse photoreceptor network. <i>Science Advances</i> , 2020, 6, eaba7232.	10.3	35
43	Differences in the expression of connexin genes in rat hepatomas in vivo and in vitro. <i>Molecular Carcinogenesis</i> , 1994, 11, 145-154.	2.7	29
44	Cx50 requires an intact PDZ-binding motif and ZO-1 for the formation of functional intercellular channels. <i>Molecular Biology of the Cell</i> , 2011, 22, 4503-4512.	2.1	26
45	Gap Junctional Communication in the Early <i>Xenopus</i> Embryo. <i>Journal of Cell Biology</i> , 2000, 150, 929-936.	5.2	25
46	Gap Junctional Intercellular Communication in the Mouse Ovarian Follicle. <i>Novartis Foundation Symposium</i> , 1999, 219, 226-240.	1.1	19
47	Intercellular channels in teleosts: functional characterization of two connexins from Atlantic croaker. <i>FEBS Letters</i> , 1995, 358, 301-304.	2.8	18
48	Inhibition of connexin 36 hemichannels by glucose contributes to the stimulation of insulin secretion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E1354-E1366.	3.5	12
49	A novel, highly sensitive method for assessing gap junctional coupling. <i>Journal of Neuroscience Methods</i> , 2013, 220, 18-23.	2.5	8
50	Genetic elimination of rod/cone coupling reveals the contribution of the secondary rod pathway to the retinal output. <i>Science Advances</i> , 2022, 8, eabm4491.	10.3	8
51	DOMINANT INHIBITION OF INTERCELLULAR COMMUNICATION BY TWO CHIMERIC CONNEXINS. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1996, 23, 1062-1067.	1.9	6
52	Respiratory disturbances and high risk of sudden death in the neonatal connexin36 knockout mouse. <i>Physiological Reports</i> , 2021, 9, e15109.	1.7	2