

David A Lyons

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

4,837
citations

147566

31
h-index

168136

53
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83
all docs

83
docs citations

83
times ranked

5351
citing authors

#	ARTICLE	IF	CITATIONS
1	Clusters of neuronal neurofascin prefigure the position of a subset of nodes of Ranvier along individual central nervous system axons in vivo. <i>Cell Reports</i> , 2022, 38, 110366.	2.9	7
2	New oligodendrocytes exhibit more abundant and accurate myelin regeneration than those that survive demyelination. <i>Nature Neuroscience</i> , 2022, 25, 415-420.	7.1	54
3	Revisiting remyelination: Towards a consensus on the regeneration of CNS myelin. <i>Seminars in Cell and Developmental Biology</i> , 2021, 116, 3-9.	2.3	82
4	PTPN21/Pez Is a Novel and Evolutionarily Conserved Key Regulator of Inflammation In vivo. <i>Current Biology</i> , 2021, 31, 875-883.e5.	1.8	5
5	CRISPR gRNA phenotypic screening in zebrafish reveals pro-regenerative genes in spinal cord injury. <i>PLoS Genetics</i> , 2021, 17, e1009515.	1.5	36
6	iPSC-derived myelinoids to study myelin biology of humans. <i>Developmental Cell</i> , 2021, 56, 1346-1358.e6.	3.1	34
7	TET1-mediated DNA hydroxymethylation regulates adult remyelination in mice. <i>Nature Communications</i> , 2021, 12, 3359.	5.8	47
8	Oligodendrocyte HCN2 Channels Regulate Myelin Sheath Length. <i>Journal of Neuroscience</i> , 2021, 41, 7954-7964.	1.7	20
9	Myelination induces axonal hotspots of synaptic vesicle fusion that promote sheath growth. <i>Current Biology</i> , 2021, 31, 3743-3754.e5.	1.8	32
10	Insights Into Central Nervous System Glial Cell Formation and Function From Zebrafish. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 754606.	1.8	5
11	Calcium Signaling in the Oligodendrocyte Lineage: Regulators and Consequences. <i>Annual Review of Neuroscience</i> , 2020, 43, 163-186.	5.0	45
12	Neuronal activity disrupts myelinated axon integrity in the absence of NKCC1b. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	18
13	Myelinating Schwann cells ensheath multiple axons in the absence of E3 ligase component Fbxw7. <i>Nature Communications</i> , 2019, 10, 2976.	5.8	39
14	Myelinated axon physiology and regulation of neural circuit function. <i>Glia</i> , 2019, 67, 2050-2062.	2.5	79
15	Forward Genetic Screen Using Zebrafish to Identify New Genes Involved in Myelination. <i>Methods in Molecular Biology</i> , 2019, 1936, 185-209.	0.4	9
16	A Drug-Inducible Transgenic Zebrafish Model for Myelinating Glial Cell Ablation. <i>Methods in Molecular Biology</i> , 2019, 1936, 227-238.	0.4	6
17	Light sheet microscopy with acoustic sample confinement. <i>Nature Communications</i> , 2019, 10, 669.	5.8	25
18	Manipulating Neuronal Activity in the Developing Zebrafish Spinal Cord to Investigate Adaptive Myelination. <i>Methods in Molecular Biology</i> , 2019, 1936, 211-225.	0.4	1

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19	Oligodendrocyte Neurofascin Independently Regulates Both Myelin Targeting and Sheath Growth in the CNS. <i>Developmental Cell</i> , 2019, 51, 730-744.e6.	3.1	35
20	Endothelin signalling mediates experience-dependent myelination in the CNS. <i>ELife</i> , 2019, 8, .	2.8	64
21	Myelination of Neuronal Cell Bodies when Myelin Supply Exceeds Axonal Demand. <i>Current Biology</i> , 2018, 28, 1296-1305.e5.	1.8	38
22	Axonal Regulation of Central Nervous System Myelination: Structure and Function. <i>Neuroscientist</i> , 2018, 24, 7-21.	2.6	32
23	Ca ²⁺ activity signatures of myelin sheath formation and growth in vivo. <i>Nature Neuroscience</i> , 2018, 21, 19-23.	7.1	151
24	Myelin Dynamics Throughout Life: An Ever-Changing Landscape?. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 424.	1.8	121
25	Glia as architects of central nervous system formation and function. <i>Science</i> , 2018, 362, 181-185.	6.0	520
26	An automated high-resolution in vivo screen in zebrafish to identify chemical regulators of myelination. <i>ELife</i> , 2018, 7, .	2.8	93
27	Drug discovery for remyelination and treatment of MS. <i>Glia</i> , 2017, 65, 1565-1589.	2.5	41
28	On Myelinated Axon Plasticity and Neuronal Circuit Formation and Function. <i>Journal of Neuroscience</i> , 2017, 37, 10023-10034.	1.7	168
29	Regeneration of myelin sheaths of normal length and thickness in the zebrafish CNS correlates with growth of axons in caliber. <i>PLoS ONE</i> , 2017, 12, e0178058.	1.1	28
30	Imaging Myelination In Vivo Using Transparent Animal Models. <i>Brain Plasticity</i> , 2016, 2, 3-29.	1.9	25
31	Adaptive myelination from fish to man. <i>Brain Research</i> , 2016, 1641, 149-161.	1.1	58
32	Individual Neuronal Subtypes Exhibit Diversity in CNS Myelination Mediated by Synaptic Vesicle Release. <i>Current Biology</i> , 2016, 26, 1447-1455.	1.8	147
33	Somatodendritic Expression of JAM2 Inhibits Oligodendrocyte Myelination. <i>Neuron</i> , 2016, 91, 824-836.	3.8	79
34	Oligodendrocyte Development in the Absence of Their Target Axons In Vivo. <i>PLoS ONE</i> , 2016, 11, e0164432.	1.1	30
35	Actin Filament Turnover Drives Leading Edge Growth during Myelin Sheath Formation in the Central Nervous System. <i>Developmental Cell</i> , 2015, 34, 139-151.	3.1	183
36	Synaptic vesicle release regulates myelin sheath number of individual oligodendrocytes in vivo. <i>Nature Neuroscience</i> , 2015, 18, 628-630.	7.1	332

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37	Glial Cell Development and Function in Zebrafish. Cold Spring Harbor Perspectives in Biology, 2015, 7, a020586.	2.3	102
38	Myelin Membrane Wrapping of CNS Axons by PI(3,4,5)P3-Dependent Polarized Growth at the Inner Tongue. Cell, 2014, 156, 277-290.	13.5	326
39	Axonal selection and myelin sheath generation in the central nervous system. Current Opinion in Cell Biology, 2013, 25, 512-519.	2.6	79
40	Individual Oligodendrocytes Have Only a Few Hours in which to Generate New Myelin Sheaths In Vivo. Developmental Cell, 2013, 25, 599-609.	3.1	261
41	Targeting Mechanisms in Myelinated Axons: Not All Nodes Are Created Equal. Developmental Cell, 2012, 22, 7-9.	3.1	4
42	Dissecting Mechanisms of Myelinated Axon Formation Using Zebrafish. Methods in Cell Biology, 2011, 105, 25-62.	0.5	54
43	ErbB signaling has a role in radial sorting independent of Schwann cell number. Glia, 2011, 59, 1047-1055.	2.5	38
44	Individual axons regulate the myelinating potential of single oligodendrocytes in vivo. Development (Cambridge), 2011, 138, 4443-4450.	1.2	178
45	Kif1b is essential for mRNA localization in oligodendrocytes and development of myelinated axons. Nature Genetics, 2009, 41, 854-858.	9.4	145
46	Axonal Domains: Role for Paranodal Junction in Node of Ranvier Assembly. Current Biology, 2008, 18, R876-R879.	1.8	2
47	KBP is essential for axonal structure, outgrowth and maintenance in zebrafish, providing insight into the cellular basis of Goldberg-Shprintzen syndrome. Development (Cambridge), 2008, 135, 599-608.	1.2	82
48	A mirror-symmetric cell division that orchestrates neuroepithelial morphogenesis. Nature, 2007, 446, 797-800.	13.7	205
49	±II-Spectrin Is Essential for Assembly of the Nodes of Ranvier in Myelinated Axons. Current Biology, 2007, 17, 562-568.	1.8	82
50	A genetic screen identifies genes essential for development of myelinated axons in zebrafish. Developmental Biology, 2006, 298, 118-131.	0.9	112
51	nsf Is Essential for Organization of Myelinated Axons in Zebrafish. Current Biology, 2006, 16, 636-648.	1.8	45
52	erbb3 and erbb2 Are Essential for Schwann Cell Migration and Myelination in Zebrafish. Current Biology, 2005, 15, 513-524.	1.8	300
53	Monitoring neural progenitor fate through multiple rounds of division in an intact vertebrate brain. Development (Cambridge), 2003, 130, 3427-3436.	1.2	99