

Thomas Misgeld

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

6,604
citations

101543

36
h-index

85541

71
g-index

77
all docs

77
docs citations

77
times ranked

9769
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural labeling and manipulation by neonatal intraventricular viral injection in mice. STAR Protocols, 2022, 3, 101081.	1.2	5
2	A new form of axonal pathology in a spinal model of neuromyelitis optica. Brain, 2022, 145, 1726-1742.	7.6	10
3	A less painful transfer of power. Neuron, 2022, 110, 559-561.	8.1	1
4	Hemorrhagic lesion with detection of infected endothelial cells in human bornavirus encephalitis. Acta Neuropathologica, 2022, 144, 377-379.	7.7	5
5	P2R Inhibitors Prevent Antibody-Mediated Complement Activation in an Animal Model of Neuromyelitis Optica. Neurotherapeutics, 2022, 19, 1603-1616.	4.4	3
6	Phagocyte-mediated synapse removal in cortical neuroinflammation is promoted by local calcium accumulation. Nature Neuroscience, 2021, 24, 355-367.	14.8	49
7	Completion of neuronal remodeling prompts myelination along developing motor axon branches. Journal of Cell Biology, 2021, 220, .	5.2	7
8	Skin and gut imprinted helper T cell subsets exhibit distinct functional phenotypes in central nervous system autoimmunity. Nature Immunology, 2021, 22, 880-892.	14.5	34
9	Notch-mediated re-specification of neuronal identity during central nervous system development. Current Biology, 2021, 31, 4870-4878.e5.	3.9	9
10	Niwaki Instead of Random Forests: Targeted Serial Sectioning Scanning Electron Microscopy With Reimaging Capabilities for Exploring Central Nervous System Cell Biology and Pathology. Frontiers in Neuroanatomy, 2021, 15, 732506.	1.7	5
11	Transthyretin Promotes Axon Growth via Regulation of Microtubule Dynamics and Tubulin Acetylation. Frontiers in Cell and Developmental Biology, 2021, 9, 747699.	3.7	6
12	Myelin replacement triggered by single-cell demyelination in mouse cortex. Nature Communications, 2020, 11, 4901.	12.8	34
13	Multiscale ATUM-FIB Microscopy Enables Targeted Ultrastructural Analysis at Isotropic Resolution. IScience, 2020, 23, 101290.	4.1	13
14	Multiscale ATUM-FIB Microscopy Enables Targeted Ultrastructural Analysis at Isotropic Resolution. Microscopy and Microanalysis, 2020, 26, 598-600.	0.4	0
15	Novel Hexb-based tools for studying microglia in the CNS. Nature Immunology, 2020, 21, 802-815.	14.5	186
16	Congenetic expression of poly-GA but not poly-PR in mice triggers selective neuron loss and interferon responses found in C9orf72 ALS. Acta Neuropathologica, 2020, 140, 121-142.	7.7	44
17	Trajectory data of antero- and retrograde movement of mitochondria in living zebrafish larvae. Data in Brief, 2020, 29, 105280.	1.0	4
18	<sc>CRMP</sc> 2 mediates Sema3Fâ€dependent axon pruning and dendritic spine remodeling. EMBO Reports, 2020, 21, e48512.	4.5	33

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19	Two adhesive systems cooperatively regulate axon ensheathment and myelin growth in the CNS. <i>Nature Communications</i> , 2019, 10, 4794.	12.8	45
20	The Microtubule Severing Protein Katanin Regulates Proliferation of Neuronal Progenitors in Embryonic and Adult Neurogenesis. <i>Scientific Reports</i> , 2019, 9, 15940.	3.3	10
21	Cell-type-specific profiling of brain mitochondria reveals functional and molecular diversity. <i>Nature Neuroscience</i> , 2019, 22, 1731-1742.	14.8	181
22	Calcium Influx through Plasma-Membrane Nanoruptures Drives Axon Degeneration in a Model of Multiple Sclerosis. <i>Neuron</i> , 2019, 101, 615-624.e5.	8.1	63
23	Iron-Sequestering Nanocompartments as Multiplexed Electron Microscopy Gene Reporters. <i>ACS Nano</i> , 2019, 13, 8114-8123.	14.6	33
24	Single organelle analysis to characterize mitochondrial function and crosstalk during viral infection. <i>Scientific Reports</i> , 2019, 9, 8492.	3.3	16
25	Imaging the execution phase of neuroinflammatory disease models. <i>Experimental Neurology</i> , 2019, 320, 112968.	4.1	3
26	Nanoresolution real-time 3D orbital tracking for studying mitochondrial trafficking in vertebrate axons in vivo. <i>ELife</i> , 2019, 8, .	6.0	32
27	Non-cell-autonomous function of DR6 in Schwann cell proliferation. <i>EMBO Journal</i> , 2018, 37, .	7.8	14
28	Neuronal Growth Cone Size-Dependent and -Independent Parameters of Microtubule Polymerization. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 195.	3.7	77
29	Uncoupling of neurogenesis and differentiation during retinal development. <i>EMBO Journal</i> , 2017, 36, 1134-1146.	7.8	16
30	TREM2 deficiency impairs chemotaxis and microglial responses to neuronal injury. <i>EMBO Reports</i> , 2017, 18, 1186-1198.	4.5	240
31	Mitostasis in Neurons: Maintaining Mitochondria in an Extended Cellular Architecture. <i>Neuron</i> , 2017, 96, 651-666.	8.1	379
32	In Vivo Imaging of CNS Injury and Disease. <i>Journal of Neuroscience</i> , 2017, 37, 10808-10816.	3.6	24
33	Trans-presentation of IL-6 by dendritic cells is required for the priming of pathogenic TH17 cells. <i>Nature Immunology</i> , 2017, 18, 74-85.	14.5	311
34	Mouse redox histology using genetically encoded probes. <i>Science Signaling</i> , 2016, 9, rs1.	3.6	62
35	Considerations for a European animal welfare standard to evaluate adverse phenotypes in teleost fish. <i>EMBO Journal</i> , 2016, 35, 1151-1154.	7.8	19
36	Super-resolution microscopy writ large. <i>Nature Biotechnology</i> , 2016, 34, 928-930.	17.5	9

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37	Imaging of neuronal mitochondria in situ. <i>Current Opinion in Neurobiology</i> , 2016, 39, 152-163.	4.2	13
38	In vivo imaging reveals rapid astrocyte depletion and axon damage in a model of neuromyelitis optica-related pathology. <i>Annals of Neurology</i> , 2016, 79, 794-805.	5.3	45
39	Branch-Specific Microtubule Destabilization Mediates Axon Branch Loss during Neuromuscular Synapse Elimination. <i>Neuron</i> , 2016, 92, 845-856.	8.1	89
40	\hat{I}^2 T-cell receptors from multiple sclerosis brain lesions show MAIT cell-related features. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2015, 2, e107.	6.0	52
41	Imaging Acute Neuromuscular Explants from <i>Thy1</i> Mouse Lines. <i>Cold Spring Harbor Protocols</i> , 2015, 2015, pdb.prot087692.	0.3	4
42	An assay to image neuronal microtubule dynamics in mice. <i>Nature Communications</i> , 2014, 5, 4827.	12.8	132
43	A recoverable state of axon injury persists for hours after spinal cord contusion in vivo. <i>Nature Communications</i> , 2014, 5, 5683.	12.8	95
44	Pervasive Axonal Transport Deficits in Multiple Sclerosis Models. <i>Neuron</i> , 2014, 84, 1183-1190.	8.1	151
45	In Vivo Imaging of Mitochondria in Intact Zebrafish Larvae. <i>Methods in Enzymology</i> , 2014, 547, 151-164.	1.0	9
46	CNS Axons Globally Increase Axonal Transport after Peripheral Conditioning. <i>Journal of Neuroscience</i> , 2014, 34, 5965-5970.	3.6	70
47	Multiparametric optical analysis of mitochondrial redox signals during neuronal physiology and pathology in vivo. <i>Nature Medicine</i> , 2014, 20, 555-560.	30.7	143
48	A unified cell biological perspective on axon-myelin injury. <i>Journal of Cell Biology</i> , 2014, 206, 335-345.	5.2	73
49	The Use of a Laser for Correlating Light and Electron Microscopic Images in Thick Tissue Specimens. <i>Methods in Cell Biology</i> , 2014, 124, 323-337.	1.1	5
50	Rapid adaptive optical recovery of optimal resolution over large volumes. <i>Nature Methods</i> , 2014, 11, 625-628.	19.0	253
51	STIM1 Controls Neuronal Ca ²⁺ Signaling, mGluR1-Dependent Synaptic Transmission, and Cerebellar Motor Behavior. <i>Neuron</i> , 2014, 82, 635-644.	8.1	162
52	Sequential Photo-bleaching to Delineate Single Schwann Cells at the Neuromuscular Junction. <i>Journal of Visualized Experiments</i> , 2013, , e4460.	0.3	7
53	Cellular, subcellular and functional in vivo labeling of the spinal cord using vital dyes. <i>Nature Protocols</i> , 2013, 8, 481-490.	12.0	49
54	Axonal transport deficits and degeneration can evolve independently in mouse models of amyotrophic lateral sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4296-4301.	7.1	100

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55	<i>In Vivo</i> Imaging of Disease-Related Mitochondrial Dynamics in a Vertebrate Model System. <i>Journal of Neuroscience</i> , 2012, 32, 16203-16212.	3.6	90
56	Age-dependent axonal transport and locomotor changes and tau hypophosphorylation in a α 301L-tau knockin mouse. <i>Neurobiology of Aging</i> , 2012, 33, 621.e1-621.e15.	3.1	75
57	A reversible form of axon damage in experimental autoimmune encephalomyelitis and multiple sclerosis. <i>Nature Medicine</i> , 2011, 17, 495-499.	30.7	631
58	Near-infrared branding efficiently correlates light and electron microscopy. <i>Nature Methods</i> , 2011, 8, 568-570.	19.0	139
59	Spatial constraints dictate glial territories at murine neuromuscular junctions. <i>Journal of Cell Biology</i> , 2011, 195, 293-305.	5.2	47
60	Voltage-dependent Inwardly Rectifying Potassium Conductance in the Outer Membrane of Neuronal Mitochondria. <i>Journal of Biological Chemistry</i> , 2010, 285, 27411-27417.	3.4	16
61	Ex vivo imaging of motor axon dynamics in murine triangularis sterni explants. <i>Nature Protocols</i> , 2008, 3, 1645-1653.	12.0	30
62	Lysosomal Activity Associated with Developmental Axon Pruning. <i>Journal of Neuroscience</i> , 2008, 28, 8993-9001.	3.6	93
63	Imaging axonal transport of mitochondria in vivo. <i>Nature Methods</i> , 2007, 4, 559-561.	19.0	377
64	In vivo imaging of the diseased nervous system. <i>Nature Reviews Neuroscience</i> , 2006, 7, 449-463.	10.2	174
65	In vivo imaging of axonal degeneration and regeneration in the injured spinal cord. <i>Nature Medicine</i> , 2005, 11, 572-577.	30.7	487
66	Death of an axon: studying axon loss in development and disease. <i>Histochemistry and Cell Biology</i> , 2005, 124, 189-196.	1.7	14
67	Agrin promotes synaptic differentiation by counteracting an inhibitory effect of neurotransmitter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11088-11093.	7.1	185
68	Remodeling of Axonal Connections Contributes to Recovery in an Animal Model of Multiple Sclerosis. <i>Journal of Experimental Medicine</i> , 2004, 200, 1027-1038.	8.5	128
69	Nerve-independent formation of a topologically complex postsynaptic apparatus. <i>Journal of Cell Biology</i> , 2004, 164, 1077-1087.	5.2	144
70	Axon Branch Removal at Developing Synapses by Axosome Shedding. <i>Neuron</i> , 2004, 44, 651-661.	8.1	258
71	Roles of Neurotransmitter in Synapse Formation. <i>Neuron</i> , 2002, 36, 635-648.	8.1	274