Gesine Saher

List of Publications by Year
in descending order

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Version: 2024-02-01

35 papers	3,720 citations	218662 26 h-index	345203 36 g-index
41 all docs	41 docs citations	41 times ranked	5336 citing authors

#	Article	IF	Citations
1	High cholesterol level is essential for myelin membrane growth. Nature Neuroscience, 2005, 8, 468-475.	14.8	578
2	Absence of integrin Î±7 causes a novel form of muscular dystrophy. Nature Genetics, 1997, 17, 318-323.	21.4	425
3	Neuropsychiatric disease relevance of circulating anti-NMDA receptor autoantibodies depends on bloodâ€“brain barrier integrity. Molecular Psychiatry, 2014, 19, 1143-1149.	7.9	293
4	Lipid metabolism in myelinating glial cells: lessons from human inherited disorders and mouse models. Journal of Lipid Research, 2011, 52, 419-434.	4.2	228
5	Morphological and Biochemical Characterization of the Membranous Hepatitis C Virus Replication Compartment. Journal of Virology, 2013, 87, 10612-10627.	3.4	220
6	The PreS2 activator MHBst of hepatitis B virus activates c-raf-1/Erk2 signaling in transgenic mice. EMBO Journal, 2002, 21, 525-535.	7.8	145
7	The Hepatitis B Virus Large Surface Protein (LHBs) Is a Transcriptional Activator. Virology, 1996, 225, 235-239.	2.4	135
8	Microglia facilitate repair of demyelinated lesions via post-squalene sterol synthesis. Nature Neuroscience, 2021, 24, 47-60.	14.8	134
9	Cholesterol in myelin biogenesis and hypomyelinating disorders. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 1083-1094.	2.4	126
10	Survival of adult neurons lacking cholesterol synthesis in vivo. BMC Neuroscience, 2007, 8, 1.	1.9	112
11	Optimizing Nervous System-Specific Gene Targeting with Cre Driver Lines: Prevalence of Germline Recombination and Influencing Factors. Neuron, 2020, 106, 37-65.e5.	8.1	109
12	Dietary cholesterol promotes repair of demyelinated lesions in the adult brain. Nature Communications, 2017, 8, 14241.	12.8	104
13	Therapy of Pelizaeus-Merzbacher disease in mice by feeding a cholesterol-enriched diet. Nature Medicine, 2012, 18, 1130-1135.	30.7	99
14	Cholesterol: A Novel Regulatory Role in Myelin Formation. Neuroscientist, 2011, 17, 79-93.	3.5	96
15	Cholesterol Regulates the Endoplasmic Reticulum Exit of the Major Membrane Protein P0 Required for Peripheral Myelin Compaction. Journal of Neuroscience, 2009, 29, 6094-6104.	3.6	92
16	A critical role for the cholesterolâ€associated proteolipids PLP and M6B in myelination of the central nervous system. Glia, 2013, 61, 567-586.	4.9	91
17	Secondary reduction of Î±7B integrin in laminin Î±2 deficient congenital muscular dystrophy supports an additional transmembrane link in skeletal muscle. Journal of the Neurological Sciences, 1999, 163, 140-152.	0.6	75
18	Critical Time Window of Neuronal Cholesterol Synthesis during Neurite Outgrowth. Journal of Neuroscience, 2012, 32, 7632-7645.	3.6	65

#	Article	IF	Citations
19	Ablation of cholesterol biosynthesis in neural stem cells increases their VEGF expression and angiogenesis but causes neuron apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8350-8355.	7.1	64
20	Uncoupling the widespread occurrence of anti-NMDAR1 autoantibodies from neuropsychiatric disease in a novel autoimmune model. Molecular Psychiatry, 2019, 24, 1489-1501.	7.9	63
21	Blood-brain barrier hyperpermeability precedes demyelination in the cuprizone model. Acta Neuropathologica Communications, 2017, 5, 94.	5.2	62
22	Cholesterol and Myelin Biogenesis. Sub-Cellular Biochemistry, 2010, 51, 489-508.	2.4	61
23	Ketogenic diet ameliorates axonal defects and promotes myelination in Pelizaeusâ€“Merzbacher disease. Acta Neuropathologica, 2019, 138, 147-161.	7.7	48
24	Inducible targeting of CNS astrocytes in Aldh1l1-CreERT2 BAC transgenic mice. F1000Research, 2016, 5, 2934.	1.6	44
25	Neuronâ€glia signaling and the protection of axon function by Schwann cells. Journal of the Peripheral Nervous System, 2010, 15, 10-16.	3.1	43
26	A role for myelin-associated peroxisomes in maintaining paranodal loops and axonal integrity. FEBS Letters, 2011, 585, 2205-2211.	2.8	41
27	Local cholesterol metabolism orchestrates remyelination. Trends in Neurosciences, 2022, 45, 272-283.	8.6	35
28	Dual metabotropic glutamate receptor signaling enables coordination of astrocyte and neuron activity in developing sensory domains. Neuron, 2021, 109, 2545-2555.e7.	8.1	23
29	Neuronal cholesterol synthesis is essential for repair of chronically demyelinated lesions in mice. Cell Reports, 2021, 37, 109889.	6.4	23
30	Activation of c-Raf-1 Kinase Signal Transduction Pathway in Î±7 Integrin-deficient Mice. Journal of Biological Chemistry, 1999, 274, 27651-27657.	3.4	22
31	Distribution of Aldh1L1-CreERT2 Recombination in Astrocytes Versus Neural Stem Cells in the Neurogenic Niches of the Adult Mouse Brain. Frontiers in Neuroscience, 2021, 15, 713077.	2.8	14
32	Diet triggers specific responses of hypothalamic astrocytes in time and region dependent manner. Glia, 2022, 70, 2062-2078.	4.9	12
33	Anesthesia triggers drug delivery to experimental glioma in mice by hijacking caveolar transport. Neuro-Oncology Advances, 2021, 3, vdab140.	0.7	10
34	Liver kinase B1 depletion from astrocytes worsens disease in a mouse model of multiple sclerosis. Glia, 2020, 68, 600-616.	4.9	9
35	Comparison of RNA isolation procedures for analysis of adult murine brain and spinal cord astrocytes. Journal of Neuroscience Methods, 2020, 333, 108545.	2.5	2