Alexander Gow

List of Publications by Year
in descending order

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66 papers	4,038 citations	201674 27 h-index	138484 58 g-index
69 all docs	69 docs citations	69 times ranked	4322 citing authors

#	Article	IF	Citations
1	CNS Myelin and Sertoli Cell Tight Junction Strands Are Absent in Osp/Claudin-11 Null Mice. Cell, 1999, 99, 649-659.	28.9	649
2	The oligodendrocyte-specific G proteinâ€“coupled receptor GPR17 is a cell-intrinsic timer of myelination. Nature Neuroscience, 2009, 12, 1398-1406.	14.8	277
3	The Unfolded Protein Response Modulates Disease Severity in Pelizaeus-Merzbacher Disease. Neuron, 2002, 36, 585-596.	8.1	246
4	Myelinogenesis and Axonal Recognition by Oligodendrocytes in Brain Are Uncoupled in Olig1-Null Mice. Journal of Neuroscience, 2005, 25, 1354-1365.	3.6	236
5	A cellular mechanism governing the severity of Pelizaeusâ€“Merzbacher disease. Nature Genetics, 1996, 13, 422-428.	21.4	235
6	Deafness in Claudin 11-Null Mice Reveals the Critical Contribution of Basal Cell Tight Junctions to Stria Vascularis Function. Journal of Neuroscience, 2004, 24, 7051-7062.	3.6	225
7	Disrupted Proteolipid Protein Trafficking Results in Oligodendrocyte Apoptosis in an Animal Model of Pelizaeus-Merzbacher Disease. Journal of Cell Biology, 1998, 140, 925-934.	5.2	216
8	Airborne particulate matter selectively activates endoplasmic reticulum stress response in the lung and liver tissues. American Journal of Physiology - Cell Physiology, 2010, 299, C736-C749.	4.6	183
9	Many naturally occurring mutations of myelin proteolipid protein impair its intracellular transport. Journal of Neuroscience Research, 1994, 37, 574-583.	2.9	166
10	Claudin 11 Deficiency in Mice Results in Loss of the Sertoli Cell Epithelial Phenotype in the Testis1. Biology of Reproduction, 2010, 82, 202-213.	2.7	163
11	Microtubule Deacetylases, SirT2 and HDAC6, in the Nervous System. Neurochemical Research, 2007, 32, 187-195.	3.3	117
12	Distinct subdomain organization and molecular composition of a tight junction with adherens junction features. Journal of Cell Science, 2006, 119, 4819-4827.	2.0	106
13	The Evolution of Lipophilin Genes from Invertebrates to Tetrapods: DM-20 Cannot Replace Proteolipid Protein in CNS Myelin. Journal of Neuroscience, 2000, 20, 4002-4010.	3.6	95
14	Tight junctions potentiate the insulative properties of small CNS myelinated axons. Journal of Cell Biology, 2008, 183, 909-921.	5.2	93
15	CNS Myelin Paranodes Require Nkx6-2 Homeoprotein Transcriptional Activity for Normal Structure. Journal of Neuroscience, 2004, 24, 11215-11225.	3.6	80
16	Intracellular transport and sorting of the oligodendrocyte transmembrane proteolipid protein. Journal of Neuroscience Research, 1994, 37, 563-573.	2.9	74
17	Conservation of Topology, But Not Conformation, of the Proteolipid Proteins of the Myelin Sheath. Journal of Neuroscience, 1997, 17, 181-189.	3.6	70
18	CHOP and the endoplasmic reticulum stress response in myelinating glia. Current Opinion in Neurobiology, 2009, 19, 505-510.	4.2	61

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19	MpzR98C arrests Schwann cell development in a mouse model of early-onset Charcotâ€“Marieâ€“Tooth disease type 1B. Brain, 2012, 135, 2032-2047.	7.6	61
20	The Unfolded Protein Response in Protein Aggregating Diseases. NeuroMolecular Medicine, 2003, 4, 73-94.	3.4	53
21	Molecular pathways of oligodendrocyte apoptosis revealed by mutations in the proteolipid protein gene. Microscopy Research and Technique, 2001, 52, 700-708.	2.2	50
22	Quantifying the carrier female phenotype in Pelizaeus-Merzbacher disease. Genetics in Medicine, 2006, 8, 371-378.	2.4	41
23	Double gene deletion reveals lack of cooperation between claudin 11 and claudin 14 tight junction proteins. Cell and Tissue Research, 2008, 333, 427-438.	2.9	36
24	Claudin-11 Tight Junctions in Myelin Are a Barrier to Diffusion and Lack Strong Adhesive Properties. Biophysical Journal, 2015, 109, 1387-1397.	0.5	36
25	Intracellular distribution of transgenic bacterial ?-galactosidase in central nervous system neurons and neuroglia. Journal of Neuroscience Research, 1993, 36, 88-98.	2.9	33
26	Immortalized CNS pericytes are quiescent smooth muscle actin-negative and pluripotent. Microvascular Research, 2011, 82, 18-27.	2.5	28
27	Neuroradiologic correlates of clinical disability and progression in the X-Linked leukodystrophy Pelizaeusâ€“Merzbacher disease. Journal of the Neurological Sciences, 2013, 335, 75-81.	0.6	28
28	A model of tight junction function in central nervous system myelinated axons. Neuron Glia Biology, 2008, 4, 307-317.	1.6	27
29	Absence of Claudin 11 in CNS Myelin Perturbs Behavior and Neurotransmitter Levels in Mice. Scientific Reports, 2018, 8, 3798.	3.3	27
30	Myelin sheaths are formed with proteins that originated in vertebrate lineages. Neuron Glia Biology, 2008, 4, 137-152.	1.6	24
31	Redefining the lipophilin family of proteolipid proteins. , 1997, 50, 659-664.		21
32	Overexpression of CHOP in Myelinating Cells Does Not Confer a Significant Phenotype under Normal or Metabolic Stress Conditions. Journal of Neuroscience, 2016, 36, 6803-6819.	3.6	21
33	Proteolipid/DM-20 proteins bearing the paralytic tremor mutation in peripheral nerves and transfected Cos-7 cells. Neurochemical Research, 1996, 21, 423-430.	3.3	19
34	Alternative promoters and polyadenylation regulate tissue-specific expression ofHemogen isoforms during hematopoiesis and spermatogenesis. Developmental Dynamics, 2003, 228, 606-616.	1.8	18
35	Minimal role for caspase 12 in the unfolded protein response in oligodendrocytes inÂvivo. Journal of Neurochemistry, 2007, 101, 889-897.	3.9	18
36	Interactions between bovine myelin basic protein and zwitterionic lysophospholipids. Biochemistry, 1990, 29, 1142-1147.	2.5	16

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37	Equilibrium binding of myristoyllysophosphatidylcholine to bovine myelin basic protein: an example of ligand-mediated acceptor association. Biochemistry, 1987, 26, 982-987.	2.5	15
38	Minimal role for activating transcription factor 3 in the oligodendrocyte unfolded protein responsein vivo. Journal of Neurochemistry, 2007, 102, 1703-1712.	3.9	15
39	Novel Role for Claudin-11 in the Regulation of Osteoblasts via Modulation of ADAM10-Mediated Notch Signaling. Journal of Bone and Mineral Research, 2019, 34, 1910-1922.	2.8	14
40	Transgene-Mediated Rescue of Spermatogenesis in Cldn11-Null Mice1. Biology of Reproduction, 2012, 86, 139, 1-11.	2.7	12
41	Potential for Cell-Mediated Immune Responses in Mouse Models of Pelizaeus-Merzbacher Disease. Brain Sciences, 2013, 3, 1417-1444.	2.3	11
42	Phenotyping the Claudin 11 Deficiency in Testis: From Histology to Immunohistochemistry. Methods in Molecular Biology, 2011, 763, 223-236.	0.9	11
43	Claudin Proteins and Neuronal Function. Current Topics in Membranes, 2010, 65, 229-253.	0.9	10
44	Age-related murine hippocampal CA1 laminae oxidative stress measured in vivo by QUEnch-assiSTed (QUEST) MRI: impact of isoflurane anesthesia. GeroScience, 2020, 42, 563-574.	4.6	10
45	Tissue-Restricted Transcription from a Conserved Intragenic CpG Island in the Klf1 Gene in Mice1. Biology of Reproduction, 2012, 87, 108.	2.7	9
46	Increased anesthesia time using 2,2,2-tribromoethanolâ€“chloral hydrate with low impact on mouse psychoacoustics. Journal of Neuroscience Methods, 2013, 219, 61-69.	2.5	9
47	Onecut-dependent Nkx6.2 transcription factor expression is required for proper formation and activity of spinal locomotor circuits. Scientific Reports, 2020, 10, 996.	3.3	9
48	Neuregulin1 modulation of experimental autoimmune encephalomyelitis (EAE). Journal of Neuroimmunology, 2018, 318, 56-64.	2.3	7
49	The COS-7 Cell In Vitro Paradigm to Study Myelin Proteolipid Protein 1 Gene Mutations. , 2003, 217, 263-276.		6
50	Novel alternatively spliced endoplasmic reticulum retention signal in the cytoplasmic loop ofProteolipid Protein-1. Journal of Neuroscience Research, 2007, 85, 471-478.	2.9	6
51	An inducible <scp>Cldn11â€CreER^{T2}</scp> mouse line for selective targeting of lymphatic valves. Genesis, 2021, 59, e23439.	1.6	6
52	Pressure-induced dissociation of aggregates of myelin proteolipid protein. BBA - Proteins and Proteomics, 1985, 828, 383-386.	2.1	5
53	An antisense transgenic strategy to inhibit the myelin oligodendrocyte glycoprotein synthesis. Molecular Brain Research, 1996, 43, 333-337.	2.3	5
54	Using Temporal Genetic Switches to Synchronize the Unfolded Protein Response in Cell Populations In Vivo. Methods in Enzymology, 2011, 491, 143-161.	1.0	5

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55	Developmental window of sensorineural deafness in biotinidaseâ€deficient mice. Journal of Inherited Metabolic Disease, 2017, 40, 733-744.	3.6	5
56	Preferential ligand binding to multi-state acceptor systems: the unexplored paradox of acceptor self-association that is ligand-mediated but detrimental to ligand binding. Journal of Theoretical Biology, 1990, 145, 407-420.	1.7	4
57	Protein Misfolding as a Disease Determinant. , 2004, , 1009-1036.		4
58	Corticohippocampal Dysfunction In The OBiden Mouse Model Of Primary Oligodendrogliopathy. Scientific Reports, 2018, 8, 16116.	3.3	3
59	Auditory testing profiles of Pelizaeus-Merzbacher disease. International Journal of Pediatric Otorhinolaryngology Extra, 2011, 6, 23-29.	0.1	2
60	Dimethyl fumarate ameliorates myoclonus stemming from protein misfolding in oligodendrocytes. Journal of Neurochemistry, 2017, 142, 103-117.	3.9	2
61	Functions of OSP/Claudin- 11-Containing Parallel Tight Junctions. , 2001, , .		2
62	Oligodendrocyte Metabolic Stress in Neurodegeneration. , 0, , .		1
63	Empowering Patients with HIPAA Aware Personal Health Libraries. Lecture Notes in Computer Science, 2021, , 112-123.	1.3	1
64	ArrayQ: Querying Microarray Expressions for Relevant Pathways. , 2009, , .		0
65	The Claudin 11 Gene. , 2004, , 565-578.		0
66	Ranking novel regulatory genes in gene expression profiles using NetExpress. , 2017, 2017, 24-27.		0