Paul Heath

List of Publications by Year
in descending order

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79 papers	4,170 citations	101384 36 h-index	123241 61 g-index
81 all docs	81 docs citations	81 times ranked	6871 citing authors

#	Article	IF	Citations
1	Update on the glutamatergic neurotransmitter system and the role of excitotoxicity in amyotrophic lateral sclerosis. Muscle and Nerve, 2002, 26, 438-458.	1.0	281
2	Gene expression profiling in human neurodegenerative disease. Nature Reviews Neurology, 2012, 8, 518-530.	4.9	183
3	Mutant SOD1 alters the motor neuronal transcriptome: implications for familial ALS. Brain, 2005, 128, 1686-1706.	3.7	170
4	Microarray analysis of the astrocyte transcriptome in the aging brain: relationship to Alzheimer's pathology and APOE genotype. Neurobiology of Aging, 2011, 32, 1795-1807.	1.5	166
5	Review: Astrocytes in Alzheimer's disease and other ageâ€associated dementias: a supporting player with a central role. Neuropathology and Applied Neurobiology, 2017, 43, 281-298.	1.8	166
6	Alphaâ€synuclein mRNA expression in oligodendrocytes in MSA. Glia, 2014, 62, 964-970.	2.5	149
7	Oligodendrocytes contribute to motor neuron death in ALS via SOD1-dependent mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6496-E6505.	3.3	139
8	Micro-RNAs secreted through astrocyte-derived extracellular vesicles cause neuronal network degeneration in C9orf72 ALS. EBioMedicine, 2019, 40, 626-635.	2.7	138
9	Unravelling the enigma of selective vulnerability in neurodegeneration: motor neurons resistant to degeneration in ALS show distinct gene expression characteristics and decreased susceptibility to excitotoxicity. Acta Neuropathologica, 2013, 125, 95-109.	3.9	133
10	Endogenous Production of IL1B by Breast Cancer Cells Drives Metastasis and Colonization of the Bone Microenvironment. Clinical Cancer Research, 2019, 25, 2769-2782.	3.2	120
11	Serum miRNAs miR-206, 143-3p and 374b-5p as potential biomarkers for amyotrophic lateral sclerosis (ALS). Neurobiology of Aging, 2017, 55, 123-131.	1.5	117
12	Comparison and optimisation of microRNA extraction from the plasma of healthy pregnant women. Molecular Medicine Reports, 2021, 23, 1.	1.1	110
13	Loss of nuclear <scp>TDP</scp>â€43 in amyotrophic lateral sclerosis (<scp>ALS</scp>) causes altered expression of splicing machinery and widespread dysregulation of <scp>RNA</scp> splicing in motor neurones. Neuropathology and Applied Neurobiology, 2014, 40, 670-685.	1.8	98
14	Ageâ€associated changes in the bloodâ€brain barrier: comparative studies in human and mouse. Neuropathology and Applied Neurobiology, 2018, 44, 328-340.	1.8	84
15	C9ORF72 GGGGCC Expanded Repeats Produce Splicing Dysregulation which Correlates with Disease Severity in Amyotrophic Lateral Sclerosis. PLoS ONE, 2015, 10, e0127376.	1.1	83
16	Small RNA Sequencing of Sporadic Amyotrophic Lateral Sclerosis Cerebrospinal Fluid Reveals Differentially Expressed miRNAs Related to Neural and Glial Activity. Frontiers in Neuroscience, 2017, 11, 731.	1.4	83
17	Human axial progenitors generate trunk neural crest cells in vitro. ELife, 2018, 7, .	2.8	81
18	Microarray RNA Expression Analysis of Cerebral White Matter Lesions Reveals Changes in Multiple Functional Pathways. Stroke, 2009, 40, 369-375.	1.0	80

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19	Phosphatase and tensin homologue/protein kinase B pathway linked to motor neuron survival in human superoxide dismutase 1-related amyotrophic lateral sclerosis. Brain, 2011, 134, 506-517.	3.7	71
20	Value of systematic genetic screening of patients with amyotrophic lateral sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2021, 92, 510-518.	0.9	69
21	Bioenergetic status modulates motor neuron vulnerability and pathogenesis in a zebrafish model of spinal muscular atrophy. PLoS Genetics, 2017, 13, e1006744.	1.5	69
22	Insulin and IGF1 signalling pathways in human astrocytes in vitro and in vivo; characterisation, subcellular localisation and modulation of the receptors. Molecular Brain, 2015, 8, 51.	1.3	68
23	The genetics of amyotrophic lateral sclerosis: current insights. Degenerative Neurological and Neuromuscular Disease, 2016, 6, 49.	0.7	65
24	Immune response in peripheral axons delays disease progression in SOD1G93A mice. Journal of Neuroinflammation, 2016, 13, 261.	3.1	63
25	A data-driven approach links microglia to pathology and prognosis in amyotrophic lateral sclerosis. Acta Neuropathologica Communications, 2017, 5, 23.	2.4	63
26	C9orf72 expansion within astrocytes reduces metabolic flexibility in amyotrophic lateral sclerosis. Brain, 2019, 142, 3771-3790.	3.7	59
27	The nuclear retention of transcription factor FOXO3a correlates with a DNA damage response and increased glutamine synthetase expression by astrocytes suggesting a neuroprotective role in the ageing brain. Neuroscience Letters, 2015, 609, 11-17.	1.0	58
28	Impairment of mitochondrial anti-oxidant defence in SOD1-related motor neuron injury and amelioration by ebselen. Brain, 2006, 129, 1693-1709.	3.7	57
29	Oxidative Glial Cell Damage Associated with White Matter Lesions in the Aging Human Brain. Brain Pathology, 2015, 25, 565-574.	2.1	57
30	Mutations in the Glycosyltransferase Domain of GLT8D1 Are Associated with Familial Amyotrophic Lateral Sclerosis. Cell Reports, 2019, 26, 2298-2306.e5.	2.9	57
31	Luzp4 defines a new mRNA export pathway in cancer cells. Nucleic Acids Research, 2015, 43, 2353-2366.	6.5	56
32	S[+] Apomorphine is a CNS penetrating activator of the Nrf2-ARE pathway with activity in mouse and patient fibroblast models of amyotrophic lateral sclerosis. Free Radical Biology and Medicine, 2013, 61, 438-452.	1.3	54
33	Quantitative assessment of AMPA receptor mRNA in human spinal motor neurons isolated by laser capture microdissection. NeuroReport, 2002, 13, 1753-1757.	0.6	53
34	Transcriptome Analysis of Gene Expression Provides New Insights into the Effect of Mild Therapeutic Hypothermia on Primary Human Cortical Astrocytes Cultured under Hypoxia. Frontiers in Cellular Neuroscience, 2017, 11, 386.	1.8	50
35	Review: Neuropathology and behavioural features of transgenic murine models of Alzheimer's disease. Neuropathology and Applied Neurobiology, 2017, 43, 553-570.	1.8	46
36	Gene expression profiling of the astrocyte transcriptome in multiple sclerosis normal appearing white matter reveals a neuroprotective role. Journal of Neuroimmunology, 2016, 299, 139-146.	1.1	44

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37	Expression of p16 and p21 in the frontal association cortex of <scp>ALS</scp>/<scp>MND</scp> brains suggests neuronal cell cycle dysregulation and astrocyte senescence in early stages of the disease. Neuropathology and Applied Neurobiology, 2020, 46, 171-185.	1.8	42
38	A neuronal <scp>DNA</scp> damage response is detected at the earliest stages of <scp>A</scp>lzheimer's neuropathology and correlates with cognitive impairment in the <scp>M</scp>edical <scp>R</scp>esearch <scp>C</scp>ouncil's <scp>C</scp>ognitive <scp>F</scp>unction and <scp>A</scp>geing <scp>S</scp>tudy ageing brain cohort. Neuropathology and Applied Neurobiology, 2015, 41, 483-496.	1.8	40
39	Riboflavin Depletion Impairs Cell Proliferation in Adult Human Duodenum: Identification of Potential Effectors. Digestive Diseases and Sciences, 2011, 56, 1007-1019.	1.1	36
40	Lysosomal and phagocytic activity is increased in astrocytes during disease progression in the SOD1 G93A mouse model of amyotrophic lateral sclerosis. Frontiers in Cellular Neuroscience, 2015, 9, 410.	1.8	36
41	Neutrophil-Derived Microvesicle Induced Dysfunction of Brain Microvascular Endothelial Cells In Vitro. International Journal of Molecular Sciences, 2019, 20, 5227.	1.8	36
42	Translating SOD1 Gene Silencing toward the Clinic: A Highly Efficacious, Off-Target-free, and Biomarker-Supported Strategy for fALS. Molecular Therapy - Nucleic Acids, 2018, 12, 75-88.	2.3	33
43	Isolation of enriched glial populations from post-mortem human CNS material by immuno-laser capture microdissection. Journal of Neuroscience Methods, 2012, 208, 108-113.	1.3	29
44	Neuronal <scp>DNA</scp> damage responseâ€associated dysregulation of signalling pathways and cholesterol metabolism at the earliest stages of <scp>A</scp>lzheimerâ€type pathology. Neuropathology and Applied Neurobiology, 2016, 42, 167-179.	1.8	28
45	IL-1B drives opposing responses in primary tumours and bone metastases; harnessing combination therapies to improve outcome in breast cancer. Npj Breast Cancer, 2021, 7, 95.	2.3	28
46	Metallothioneinâ€I/II expression associates with the astrocyte DNA damage response and not Alzheimerâ€type pathology in the aging brain. Glia, 2018, 66, 2316-2323.	2.5	27
47	Comparison of Blood RNA Extraction Methods Used for Gene Expression Profiling in Amyotrophic Lateral Sclerosis. PLoS ONE, 2014, 9, e87508.	1.1	25
48	Paternal effects in a wildâ€type zebrafish implicate a role of spermâ€derived small RNAs. Molecular Ecology, 2020, 29, 2722-2735.	2.0	24
49	Investigating cell death mechanisms in amyotrophic lateral sclerosis using transcriptomics. Frontiers in Cellular Neuroscience, 2013, 7, 259.	1.8	23
50	C9ORF72 hexanucleotide repeat exerts toxicity in a stable, inducible motor neuronal cell model, which is rescued by partial depletion of Pten. Human Molecular Genetics, 2017, 26, 1133-1145.	1.4	23
51	Loss of IGF1R in Human Astrocytes Alters Complex I Activity and Support for Neurons. Neuroscience, 2018, 390, 46-59.	1.1	23
52	The Time Course of Recognition Memory Impairment and Glial Pathology in the hAPP-J20 Mouse Model of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2019, 68, 609-624.	1.2	23
53	Review: Microglia in motor neuron disease. Neuropathology and Applied Neurobiology, 2021, 47, 179-197.	1.8	20
54	Age-Associated mRNA and miRNA Expression Changes in the Blood-Brain Barrier. International Journal of Molecular Sciences, 2019, 20, 3097.	1.8	18

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55	TDP43 proteinopathy is associated with aberrant DNA methylation in human amyotrophic lateral sclerosis. Neuropathology and Applied Neurobiology, 2021, 47, 61-72.	1.8	18
56	Amyotrophic lateral sclerosis transcriptomics reveals immunological effects of low-dose interleukin-2. Brain Communications, 2021, 3, fcab141.	1.5	17
57	Type 2 diabetes mellitus-associated transcriptome alterations in cortical neurones and associated neurovascular unit cells in the ageing brain. Acta Neuropathologica Communications, 2021, 9, 5.	2.4	17
58	Transcriptomic Analysis of Human Astrocytes In Vitro Reveals Hypoxia-Induced Mitochondrial Dysfunction, Modulation of Metabolism, and Dysregulation of the Immune Response. International Journal of Molecular Sciences, 2020, 21, 8028.	1.8	16
59	Spinal muscular atrophy: Factors that modulate motor neurone vulnerability. Neurobiology of Disease, 2017, 102, 11-20.	2.1	14
60	Proteomic and cellular localisation studies suggest nonâ€tight junction cytoplasmic and nuclear roles for occludin in astrocytes. European Journal of Neuroscience, 2018, 47, 1444-1456.	1.2	14
61	SRSF1-dependent inhibition of C9ORF72-repeat RNA nuclear export: genome-wide mechanisms for neuroprotection in amyotrophic lateral sclerosis. Molecular Neurodegeneration, 2021, 16, 53.	4.4	13
62	Neuropathological characterization of a novel TANK binding kinase (TBK1) gene loss of function mutation associated with amyotrophic lateral sclerosis. Neuropathology and Applied Neurobiology, 2020, 46, 279-291.	1.8	12
63	Assessment of neurovascular coupling and cortical spreading depression in mixed mouse models of atherosclerosis and Alzheimerâ€™s disease. ELife, 2022, 11, .	2.8	12
64	Heterogeneity of cellular inflammatory responses in ageing white matter and relationship to Alzheimerâ€™s and small vessel disease pathologies. Brain Pathology, 2021, 31, e12928.	2.1	10
65	Immuno-Laser-Capture Microdissection for the Isolation of Enriched Glial Populations from Frozen Post-Mortem Human Brain. Methods in Molecular Biology, 2018, 1723, 273-284.	0.4	7
66	Advanced Glycation End Product Formation in Human Cerebral Cortex Increases With Alzheimer-Type Neuropathologic Changes but Is Not Independently Associated With Dementia in a Population-Derived Aging Brain Cohort. Journal of Neuropathology and Experimental Neurology, 2020, 79, 950-958.	0.9	7
67	Transcriptomic Analysis of Age-Associated Periventricular Lesions Reveals Dysregulation of the Immune Response. International Journal of Molecular Sciences, 2020, 21, 7924.	1.8	7
68	Persistent DNA damage alters the neuronal transcriptome suggesting cell cycle dysregulation and altered mitochondrial function. European Journal of Neuroscience, 2021, 54, 6987-7005.	1.2	7
69	Profiling microRNAs in uncomplicated pregnancies: Serum vs. plasma. Biomedical Reports, 2020, 14, 24.	0.9	7
70	RNA-Seq Profiling of Neutrophil-Derived Microvesicles in Alzheimerâ€™s Disease Patients Identifies a miRNA Signature That May Impact Bloodâ€“Brain Barrier Integrity. International Journal of Molecular Sciences, 2022, 23, 5913.	1.8	7
71	Integrative molecular characterization of pediatric spinal ependymoma: the UK Childrenâ€™s Cancer and Leukaemia Group study. Neuro-Oncology Advances, 2021, 3, vdab043.	0.4	6
72	NDRG2 Expression Correlates with Neurofibrillary Tangles and Microglial Pathology in the Ageing Brain. International Journal of Molecular Sciences, 2020, 21, 340.	1.8	4

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73	Profiling Blood Serum Extracellular Vesicles in Plaque Psoriasis and Psoriatic Arthritis Patients Reveals Potential Disease Biomarkers. International Journal of Molecular Sciences, 2022, 23, 4005.	1.8	4
74	Binding loci of RelA-containing nuclear factor-kappaB dimers in promoter regions of PHM1-31 myometrial smooth muscle cells. Molecular Human Reproduction, 2015, 21, 865-883.	1.3	3
75	Identification of single nucleotide variants in the Moroccan population by whole-genome sequencing. BMC Genetics, 2020, 21, 111.	2.7	3
76	Whole Genome Sequencing in an Acrodermatitis Enteropathica Family from the Middle East. Dermatology Research and Practice, 2018, 2018, 1-9.	0.3	2
77	Sorting nexin 24 is required for Î±-granule biogenesis and cargo delivery in megakaryocytes. Haematologica, 2022, 107, 1902-1913.	1.7	2
78	Expression microdissection isolation of enriched cell populations from archival brain tissue. Journal of Neuroscience Methods, 2016, 268, 125-130.	1.3	1
79	Transcriptomic Profiling Reveals Discrete Poststroke Dementia Neuronal and Gliovascular Signatures. Translational Stroke Research, 0, , .	2.3	1