

David N Palmer

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,775
citations

236925

25
h-index

302126

39
g-index

42
all docs

42
docs citations

42
times ranked

1084
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial ATP synthase subunit c storage in the ceroid-lipofuscinoses (Batten disease). American Journal of Medical Genetics Part A, 1992, 42, 561-567.	2.4	334
2	Storage of saposins A and D in infantile neuronal ceroid-lipofuscinosis. FEBS Letters, 1993, 330, 8-12.	2.8	157
3	Glial activation spreads from specific cerebral foci and precedes neurodegeneration in presymptomatic ovine neuronal ceroid lipofuscinosis (CLN6). Neurobiology of Disease, 2005, 20, 49-63.	4.4	99
4	NCL disease mechanisms. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 1882-1893.	3.8	96
5	Defective Endoplasmic Reticulum-resident Membrane Protein CLN6 Affects Lysosomal Degradation of Endocytosed Arylsulfatase A. Journal of Biological Chemistry, 2004, 279, 22347-22352.	3.4	88
6	Sheep and other animals with ceroid-lipofuscinoses: Their relevance to Batten disease. American Journal of Medical Genetics Part A, 1992, 42, 609-614.	2.4	69
7	A missense mutation (c.184C>T) in ovine CLN6 causes neuronal ceroid lipofuscinosis in Merino sheep whereas affected South Hampshire sheep have reduced levels of CLN6 mRNA. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2006, 1762, 898-905.	3.8	68
8	A new large animal model of CLN5 neuronal ceroid lipofuscinosis in Borderdale sheep is caused by a nucleotide substitution at a consensus splice site (c.571 + 1G >>> A) leading to excision of exon 3. Neurobiology of Disease, 2008, 29, 306-315.	4.4	64
9	Lysine 43 Is Trimethylated in Subunit c from Bovine Mitochondrial ATP Synthase and in Storage Bodies Associated with Batten Disease. Journal of Biological Chemistry, 2004, 279, 21883-21887.	3.4	57
10	Longitudinal In Vivo Monitoring of the CNS Demonstrates the Efficacy of Gene Therapy in a Sheep Model of CLN5 Batten Disease. Molecular Therapy, 2018, 26, 2366-2378.	8.2	54
11	Activation of Non-neuronal Cells within the Prenatal Developing Brain of Sheep with Neuronal Ceroid Lipofuscinosis. Brain Pathology, 2006, 16, 110-116.	4.1	48
12	Location and connectivity determine GABAergic interneuron survival in the brains of South Hampshire sheep with CLN6 neuronal ceroid lipofuscinosis. Neurobiology of Disease, 2008, 32, 50-65.	4.4	46
13	Translational neurophysiology in sheep: measuring sleep and neurological dysfunction in CLN5 Batten disease affected sheep. Brain, 2015, 138, 862-874.	7.6	39
14	Lentiviral-Mediated Gene Transfer to the Sheep Brain: Implications for Gene Therapy in Batten Disease. Human Gene Therapy, 2011, 22, 1011-1020.	2.7	35
15	Inhibition of storage pathology in prenatal CLN5-deficient sheep neural cultures by lentiviral gene therapy. Neurobiology of Disease, 2014, 62, 543-550.	4.4	34
16	Changes in GABAergic neuron distribution in situ and in neuron cultures in ovine (OCL6) Batten disease. European Journal of Paediatric Neurology, 2001, 5, 135-142.	1.6	32
17	Enhanced expression of manganese-dependent superoxide dismutase in human and sheep CLN6 tissues. Biochemical Journal, 2003, 376, 369-376.	3.7	30
18	The relevance of the storage of subunit c of ATP synthase in different forms and models of Batten disease (NCLs). Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 2287-2291.	3.8	30

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19	Phospholipid fatty acids in brains of normal sheep and sheep with ceroid-lipofuscinosis. <i>Lipids and Lipid Metabolism</i> , 1985, 834, 159-163.	2.6	29
20	Recent studies of ovine neuronal ceroid lipofuscinoses from BARN, the Batten Animal Research Network. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 2279-2286.	3.8	29
21	Molecular neuropathology of the synapse in sheep with <scp>CLN</scp>5 Batten disease. <i>Brain and Behavior</i> , 2015, 5, e00401.	2.2	28
22	Increased Zinc and Manganese in Parallel with Neurodegeneration, Synaptic Protein Changes and Activation of Akt/GSK3 Signaling in Ovine CLN6 Neuronal Ceroid Lipofuscinosis. <i>PLoS ONE</i> , 2013, 8, e58644.	2.5	28
23	Conservation of Complete Trimethylation of Lysine-43 in the Rotor Ring of c-Subunits of Metazoan Adenosine Triphosphate (ATP) Synthases*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 828-840.	3.8	27
24	An EEG Investigation of Sleep Homeostasis in Healthy and CLN5 Batten Disease Affected Sheep. <i>Journal of Neuroscience</i> , 2016, 36, 8238-8249.	3.6	27
25	The origin of fluorescence in the neuronal ceroid lipofuscinoses (Batten disease) and neuron cultures from affected sheep for studies of neurodegeneration. <i>Archives of Gerontology and Geriatrics</i> , 2002, 34, 343-357.	3.0	26
26	Metabolomic investigation of CLN6 neuronal ceroid lipofuscinosis in affected South Hampshire sheep. <i>Journal of Neuroscience Research</i> , 2007, 85, 3494-3504.	2.9	24
27	Computed tomography provides enhanced techniques for longitudinal monitoring of progressive intracranial volume loss associated with regional neurodegeneration in ovine neuronal ceroid lipofuscinoses. <i>Brain and Behavior</i> , 2018, 8, e01096.	2.2	22
28	Rapid and Progressive Regional Brain Atrophy in CLN6 Batten Disease Affected Sheep Measured with Longitudinal Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2015, 10, e0132331.	2.5	20
29	Chronic oral administration of minocycline to sheep with ovine CLN6 neuronal ceroid lipofuscinosis maintains pharmacological concentrations in the brain but does not suppress neuroinflammation or disease progression. <i>Journal of Neuroinflammation</i> , 2013, 10, 97.	7.2	19
30	Intravitreal gene therapy protects against retinal dysfunction and degeneration in sheep with CLN5 Batten disease. <i>Experimental Eye Research</i> , 2021, 207, 108600.	2.6	16
31	In Vitro Culture of Neurons from Sheep with Batten Disease. <i>Molecular Genetics and Metabolism</i> , 1999, 67, 83-88.	1.1	15
32	Disease-Specific Pathology in Neurons Cultured from Sheep Affected with Ceroid Lipofuscinosis. <i>Molecular Genetics and Metabolism</i> , 1999, 66, 381-386.	1.1	14
33	Neuropeptide changes and neuroactive amino acids in CSF from humans and sheep with neuronal ceroid lipofuscinoses (NCLs, Batten disease). <i>Neurochemistry International</i> , 2009, 55, 783-788.	3.8	14
34	The development and characterisation of complex ovine neuron cultures from fresh and frozen foetal neurons. <i>Journal of Neuroscience Methods</i> , 2006, 155, 98-108.	2.5	13
35	The specific loss of GnRH-positive neurons from the hypothalamus of sheep with CLN6 neuronal ceroid lipofuscinosis occurs without glial activation and has only minor effects on reproduction. <i>Neurobiology of Disease</i> , 2011, 41, 614-623.	4.4	13
36	Urine proteomics analysis of patients with neuronal ceroid lipofuscinoses. <i>IScience</i> , 2021, 24, 102020.	4.1	12

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37	The development of brain magnetic resonance approaches in large animal models for preclinical research. <i>Animal Frontiers</i> , 2019, 9, 44-51.	1.7	11
38	Electroretinography data from ovine models of CLN5 and CLN6 neuronal ceroid lipofuscinoses. <i>Data in Brief</i> , 2021, 37, 107188.	1.0	6
39	Molecular Imaging of Pulmonary Tuberculosis in an Ex-Vivo Mouse Model Using Spectral Photon-Counting Computed Tomography and Micro-CT. <i>IEEE Access</i> , 2021, 9, 67201-67208.	4.2	2
40	Investigation of biochemical changes of the ovine calpain 3 exon-10 polymorphism. <i>Molecular and Cellular Probes</i> , 2015, 29, 382-388.	2.1	0
41	Interactive Image Segmentation of MARS Datasets Using Bag of Features. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 559-567.	3.7	0