Nathalie Cartier

List of Publications by Year
in descending order

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64	6,915	87888	110387
papers	citations	38 h-index	64 g-index

67	67	67	7737
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hematopoietic Stem Cell Gene Therapy with a Lentiviral Vector in X-Linked Adrenoleukodystrophy. Science, 2009, 326, 818-823.	12.6	1,368
2	Transfusion independence and HMGA2 activation after gene therapy of human Î²-thalassaemia. Nature, 2010, 467, 318-322.	27.8	1,153
3	A Two-Year Trial of Oleic and Erucic Acids (â€œLorenzo's Oilâ€) as Treatment for Adrenomyeloneuropathy. New England Journal of Medicine, 1993, 329, 745-752.	27.0	229
4	Adeno-Associated Virus-Based Gene Therapy for CNS Diseases. Human Gene Therapy, 2016, 27, 478-496.	2.7	221
5	Lentiviral vector common integration sites in preclinical models and a clinical trial reflect a benign integration bias and not oncogenic selection. Blood, 2011, 117, 5332-5339.	1.4	201
6	Glucose transporter 2 (GLUT 2): expression in specific brain nuclei. Brain Research, 1994, 638, 221-226.	2.2	184
7	Prevention and reversal of severe mitochondrial cardiomyopathy by gene therapy in a mouse model of Friedreich's ataxia. Nature Medicine, 2014, 20, 542-547.	30.7	184
8	Adeno-associated Virus Gene Therapy With Cholesterol 24-Hydroxylase Reduces the Amyloid Pathology Before or After the Onset of Amyloid Plaques in Mouse Models of Alzheimer's Disease. Molecular Therapy, 2010, 18, 44-53.	8.2	166
9	CYP46A1 inhibition, brain cholesterol accumulation and neurodegeneration pave the way for Alzheimerâ€™s disease. Brain, 2015, 138, 2383-2398.	7.6	163
10	Human CD34+ cells differentiate into microglia and express recombinant therapeutic protein. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3557-3562.	7.1	150
11	CYP46A1, the rate-limiting enzyme for cholesterol degradation, is neuroprotective in Huntingtonâ€™s disease. Brain, 2016, 139, 953-970.	7.6	135
12	Viral gene transfer of APPsÎ± rescues synaptic failure in an Alzheimerâ€™s disease mouse model. Acta Neuropathologica, 2016, 131, 247-266.	7.7	131
13	Homo- and Heterodimerization of Peroxisomal ATP-binding Cassette Half-transporters. Journal of Biological Chemistry, 1999, 274, 32738-32743.	3.4	121
14	The role of microglia in human disease: therapeutic tool or target?. Acta Neuropathologica, 2014, 128, 363-380.	7.7	120
15	Deficiency of Long-Chain 3-Hydroxyacyl-CoA Dehydrogenase: A Cause of Lethal Myopathy and Cardiomyopathy in Early Childhood. Pediatric Research, 1990, 28, 657-662.	2.3	117
16	Discrete brain areas express the insulin-responsive glucose transporter GLUT4. Molecular Brain Research, 1996, 38, 45-53.	2.3	117
17	Hematopoietic Stem Cell Transplantation and Hematopoietic Stem Cell Gene Therapy in Xâ€Linked Adrenoleukodystrophy. Brain Pathology, 2010, 20, 857-862.	4.1	116
18	Retroviral-mediated gene transfer corrects very-long-chain fatty acid metabolism in adrenoleukodystrophy fibroblasts.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 1674-1678.	7.1	103

#	Article	IF	Citations
19	Lentiviral Hematopoietic Cell Gene Therapy for X-Linked Adrenoleukodystrophy. Methods in Enzymology, 2012, 507, 187-198.	1.0	100
20	Interleukin-2 improves amyloid pathology, synaptic failure and memory in Alzheimerâ€™s disease mice. Brain, 2017, 140, aww330.	7.6	99
21	Cholesterol 24-hydroxylase defect is implicated in memory impairments associated with Alzheimer-like Tau pathology. Human Molecular Genetics, 2015, 24, 5965-5976.	2.9	96
22	Valproic acid induces antioxidant effects in X-linked adrenoleukodystrophy. Human Molecular Genetics, 2010, 19, 2005-2014.	2.9	90
23	Gene therapy for leukodystrophies. Human Molecular Genetics, 2011, 20, R42-R53.	2.9	83
24	Clinical Gene Therapy for Neurodegenerative Diseases: Past, Present, and Future. Human Gene Therapy, 2017, 28, 988-1003.	2.7	82
25	Intracerebral adeno-associated virus-mediated gene transfer in rapidly progressive forms of metachromatic leukodystrophy. Human Molecular Genetics, 2006, 15, 53-64.	2.9	80
26	Increasing membrane cholesterol of neurons in culture recapitulates Alzheimerâ€™s disease early phenotypes. Molecular Neurodegeneration, 2014, 9, 60.	10.8	76
27	Correction of Brain Oligodendrocytes by AAVrh.10 Intracerebral Gene Therapy in Metachromatic Leukodystrophy Mice. Human Gene Therapy, 2012, 23, 903-914.	2.7	73
28	CYP46A1 gene therapy deciphers the role of brain cholesterol metabolism in Huntingtonâ€™s disease. Brain, 2019, 142, 2432-2450.	7.6	71
29	Efficient intracerebral delivery of AAV5 vector encoding human ARSA in non-human primate. Human Molecular Genetics, 2010, 19, 147-158.	2.9	67
30	The APP Intracellular Domain Is Required for Normal Synaptic Morphology, Synaptic Plasticity, and Hippocampus-Dependent Behavior. Journal of Neuroscience, 2015, 35, 16018-16033.	3.6	67
31	Abnormal messenger RNA expression and a missense mutation in patients with X-linked adrenoleukodystrophy. Human Molecular Genetics, 1993, 2, 1949-1951.	2.9	58
32	Transduced CD34+ cells from adrenoleukodystrophy patients with HIV-derived vector mediate long-term engraftment of NOD/SCID mice. Molecular Therapy, 2003, 7, 317-324.	8.2	57
33	Gene expression in hepatocyte-like lines established by targeted carcinogenesis in transgenic mice. Experimental Cell Research, 1992, 200, 175-185.	2.6	54
34	Partial cure of established disease in an animal model of metachromatic leukodystrophy after intracerebral adeno-associated virus-mediated gene transfer. Gene Therapy, 2007, 14, 405-414.	4.5	53
35	Restoring brain cholesterol turnover improves autophagy and has therapeutic potential in mouse models of spinocerebellar ataxia. Acta Neuropathologica, 2019, 138, 837-858.	7.7	53
36	Intra-CSF AAV9 and AAVrh10 Administration in Nonhuman Primates: Promising Routes and Vectors for Which Neurological Diseases?. Molecular Therapy - Methods and Clinical Development, 2020, 17, 771-784.	4.1	53

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37	Retroviral-mediated adrenoleukodystrophy-related gene transfer corrects very long chain fatty acid metabolism in adrenoleukodystrophy fibroblasts: implications for therapy. FEBS Letters, 1999, 448, 261-264.	2.8	46
38	Bioinformatic Clonality Analysis of Next-Generation Sequencing-Derived Viral Vector Integration Sites. Human Gene Therapy Methods, 2012, 23, 111-118.	2.1	43
39	Cholesterol Hydroxylating Cytochrome P450 46A1: From Mechanisms of Action to Clinical Applications. Frontiers in Aging Neuroscience, 2021, 13, 696778.	3.4	43
40	Retroviral Transfer and Long-Term Expression of the Adrenoleukodystrophy Gene in Human CD34+Cells. Human Gene Therapy, 1998, 9, 1025-1036.	2.7	38
41	Alzheimerâ€™s disease-like APP processing in wild-type mice identifies synaptic defects as initial steps of disease progression. Molecular Neurodegeneration, 2016, 11, 5.	10.8	37
42	Real-Time Monitoring of Exosome Enveloped-AAV Spreading by Endomicroscopy Approach: A New Tool for Gene Delivery in the Brain. Molecular Therapy - Methods and Clinical Development, 2019, 14, 237-251.	4.1	35
43	Gene Therapy Strategies for Alzheimer's Disease: An Overview. Human Gene Therapy, 2016, 27, 100-107.	2.7	34
44	Hematopoietic stem cell transplantation chemotherapy causes microglia senescence and peripheral macrophage engraftment in the brain. Nature Medicine, 2022, 28, 517-527.	30.7	32
45	Inhibition of DYRK1A proteolysis modifies its kinase specificity and rescues Alzheimer phenotype in APP/PS1 mice. Acta Neuropathologica Communications, 2019, 7, 46.	5.2	31
46	Identification of a replication-defective herpes simplex virus for recombinant adeno-associated virus type 2(rAAV2) particle assembly using stable producer cell lines. Journal of Gene Medicine, 2004, 6, 555-564.	2.8	28
47	Inhibiting cholesterol degradation induces neuronal sclerosis and epileptic activity in mouse hippocampus. European Journal of Neuroscience, 2015, 41, 1345-1355.	2.6	26
48	Reply: Beneficial effect of interleukin-2-based immunomodulation in Alzheimer-like pathology. Brain, 2017, 140, e40-e40.	7.6	25
49	Neuronal Cholesterol Accumulation Induced by Cyp46a1 Down-Regulation in Mouse Hippocampus Disrupts Brain Lipid Homeostasis. Frontiers in Molecular Neuroscience, 2017, 10, 211.	2.9	25
50	Simvastatin does not normalize very long chain fatty acids in adrenoleukodystrophy mice. FEBS Letters, 2000, 478, 205-208.	2.8	23
51	Ultramicroscopy as a novel tool to unravel the tropism of AAV gene therapy vectors in the brain. Scientific Reports, 2016, 6, 28272.	3.3	23
52	The Challenge of Gene Therapy for Neurological Diseases: Strategies and Tools to Achieve Efficient Delivery to the Central Nervous System. Human Gene Therapy, 2021, 32, 349-374.	2.7	21
53	Prevalence of pulmonary tuberculosis among prison inmates: A cross-sectional survey at the Correctional and Detention Facility of Abidjan, CÃ´te d'Ivoire. PLoS ONE, 2017, 12, e0181995.	2.5	18
54	Î²APP Processing Drives Gradual Tau Pathology in an Age-Dependent Amyloid Rat Model of Alzheimerâ€™s Disease. Cerebral Cortex, 2018, 28, 3976-3993.	2.9	13

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55	The cholesterol 24-hydroxylase activates autophagy and decreases mutant huntingtin build-up in a neuroblastoma culture model of Huntingtonâ€™s disease. BMC Research Notes, 2020, 13, 210.	1.4	10
56	Complete Correction of Brain and Spinal Cord Pathology in Metachromatic Leukodystrophy Mice. Frontiers in Molecular Neuroscience, 2021, 14, 677895.	2.9	10
57	Lentiviral vector-mediated overexpression of mutant ataxin-7 recapitulates SCA7 pathology and promotes accumulation of the FUS/TLS and MBNL1 RNA-binding proteins. Molecular Neurodegeneration, 2016, 11, 58.	10.8	9
58	Genetically modified macrophages accelerate myelin repair. EMBO Molecular Medicine, 2022, 14, .	6.9	9
59	Transient increase in sAPPÎ± secretion in response to AÎ²1â€“42 oligomers: an attempt of neuronal self-defense?. Neurobiology of Aging, 2018, 61, 23-35.	3.1	6
60	Mouse Models of Metachromatic Leukodystrophy and Adrenoleukodystrophy. Neuromethods, 2011, , 493-513.	0.3	4
61	Evaluation of Memantine in AAV-AD Rat: A Model of Late-Onset Alzheimerâ€™s Disease Predementia. journal of prevention of Alzheimer's disease, The, 2022, 9, 338-347.	2.7	3
62	Hopes, Promises, and Future Directions of Gene and Cell Therapies in France. Human Gene Therapy, 2016, 27, 96-97.	2.7	2
63	225. Phenotypic Correction of ALD Mouse after Hematopoietic Cell Transplantation and Evaluation of Hematopoietic Stem Cell Gene Therapy with a Lentivirus Vector. Molecular Therapy, 2004, 9, S87.	8.2	0
64	Hematopoietic Stem Cell Gene Therapy with Lentiviral Vector in X-Linked Adrenoleukodystrophy. Blood, 2011, 118, 163-163.	1.4	0