Nathalie Janel

List of Publications by Year
in descending order

58 papers	1,756 citations	361413 20 h-index	289244 40 g-index
58 all docs	58 docs citations	58 times ranked	2259 citing authors

#	Article	IF	Citations
1	Epigallocatechinâ€3â€gallate, a DYRK1A inhibitor, rescues cognitive deficits in <scp>D</scp>own syndrome mouse models and in humans. Molecular Nutrition and Food Research, 2014, 58, 278-288.	3.3	234
2	Safety and efficacy of cognitive training plus epigallocatechin-3-gallate in young adults with Down's syndrome (TESDAD): a double-blind, randomised, placebo-controlled, phase 2 trial. Lancet Neurology, The, 2016, 15, 801-810.	10.2	227
3	Cystathionine Î² Synthase Deficiency Promotes Oxidative Stress, Fibrosis, and Steatosis in Mice Liver. Gastroenterology, 2005, 128, 1405-1415.	1.3	163
4	Hyperhomocysteinemia due to cystathionine beta synthase deficiency induces dysregulation of genes involved in hepatic lipid homeostasis in mice. Journal of Hepatology, 2007, 46, 151-159.	3.7	104
5	Excitation/inhibition balance and learning are modified by Dyrk1a gene dosage. Neurobiology of Disease, 2014, 69, 65-75.	4.4	104
6	Pharmacological correction of excitation/inhibition imbalance in Down syndrome mouse models. Frontiers in Behavioral Neuroscience, 2015, 9, 267.	2.0	57
7	Altered Gene Expression in Liver from a Murine Model of Hyperhomocysteinemia. Journal of Biological Chemistry, 2003, 278, 31504-31511.	3.4	53
8	Effects of red wine polyphenolic compounds on paraoxonase-1 and lectin-like oxidized low-density lipoprotein receptor-1 in hyperhomocysteinemic mice. Journal of Nutritional Biochemistry, 2009, 20, 586-596.	4.2	52
9	DYRK1A, a Novel Determinant of the Methionine-Homocysteine Cycle in Different Mouse Models Overexpressing this Down-Syndrome-Associated Kinase. PLoS ONE, 2009, 4, e7540.	2.5	50
10	Dyrk1A, a Serine/Threonine Kinase, is Involved in ERK and Akt Activation in the Brain of Hyperhomocysteinemic Mice. Molecular Neurobiology, 2013, 47, 105-116.	4.0	35
11	Prenatal treatment with EGCG enriched green tea extract rescues GAD67 related developmental and cognitive defects in Down syndrome mouse models. Scientific Reports, 2019, 9, 3914.	3.3	35
12	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
13	Effect of hyperhomocysteinemia on the protein kinase DYRK1A in liver of mice. Biochemical and Biophysical Research Communications, 2009, 378, 673-677.	2.1	29
14	Effect of catechin/epicatechin dietary intake on endothelial dysfunction biomarkers and proinflammatory cytokines in aorta of hyperhomocysteinemic mice. European Journal of Nutrition, 2013, 52, 1243-1250.	3.9	29
15	Mice lacking cystathionine beta synthase have lung fibrosis and air space enlargement. Experimental and Molecular Pathology, 2007, 83, 249-253.	2.1	28
16	Myocardial fibrosis and TGFB expression in hyperhomocysteinemic rats. Molecular and Cellular Biochemistry, 2011, 347, 63-70.	3.1	27
17	Hyperkeratosis in cystathionine beta synthase-deficient mice: An animal model of hyperhomocysteinemia. The Anatomical Record, 2004, 280A, 1072-1076.	1.8	26
18	Effects of catechin on homocysteine metabolism in hyperhomocysteinemic mice. Biochemical and Biophysical Research Communications, 2007, 355, 221-227.	2.1	26

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19	Thiol compounds metabolism in mice, rats and humans: Comparative study and potential explanation of rodents protection against vascular diseases. Clinica Chimica Acta, 2006, 372, 140-146.	1.1	25
20	Deciphering the Link Between Hyperhomocysteinemia and Ceramide Metabolism in Alzheimer-Type Neurodegeneration. Frontiers in Neurology, 2019, 10, 807.	2.4	22
21	Mouse liver paraoxonase-1 gene expression is downregulated in hyperhomocysteinemia. Thrombosis and Haemostasis, 2004, 92, 221-222.	3.4	21
22	Hepatoprotective effects of lycopene on liver enzymes involved in methionine and xenobiotic metabolism in hyperhomocysteinemic rats. Food and Function, 2016, 7, 2862-2869.	4.6	20
23	The neuronal SAPK/JNK pathway is altered in a murine model of hyperhomocysteinemia. Journal of Neurochemistry, 2004, 89, 33-43.	3.9	19
24	Homocysteine-lowering gene therapy rescues signaling pathways in brain of mice with intermediate hyperhomocysteinemia. Redox Biology, 2018, 19, 200-209.	9.0	18
25	Mice Deficient in Cystathionine Beta Synthase Display Increased Dyrk1A and SAHH Activities in Brain. Journal of Molecular Neuroscience, 2013, 50, 1-6.	2.3	17
26	Overexpression of the DYRK1A Gene (Dual-Specificity Tyrosine Phosphorylation-Regulated Kinase 1A) Induces Alterations of the Serotoninergic and Dopaminergic Processing in Murine Brain Tissues. Molecular Neurobiology, 2018, 55, 3822-3831.	4.0	17
27	LPS-Induced Inflammation Abolishes the Effect of DYRK1A on IκB Stability in the Brain of Mice. Molecular Neurobiology, 2019, 56, 963-975.	4.0	17
28	Hepatocyte-specific Dyrk1a gene transfer rescues plasma apolipoprotein A-I levels and aortic Akt/GSK3 pathways in hyperhomocysteinemic mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 718-728.	3.8	16
29	Optimisation of microwaveâ€assisted extraction of prune (<scp>P</scp>runus domestica) antioxidants by response surface methodology. International Journal of Food Science and Technology, 2014, 49, 2158-2166.	2.7	16
30	Molecular Rescue of Dyrk1A Overexpression Alterations in Mice with FontupÂ® Dietary Supplement: Role of Green Tea Catechins. International Journal of Molecular Sciences, 2020, 21, 1404.	4.1	16
31	Calpain activation is required for homocysteine-mediated hepatic degradation of inhibitor Ikappa B alpha. Molecular Genetics and Metabolism, 2009, 97, 114-120.	1.1	15
32	BDNF and DYRK1A Are Variable and Inversely Correlated in Lymphoblastoid Cell Lines from Down Syndrome Patients. Molecular Neurobiology, 2012, 46, 297-303.	4.0	15
33	A high-performance liquid chromatography assay for Dyrk1a, a Down syndrome-associated kinase. Analytical Biochemistry, 2014, 449, 172-178.	2.4	15
34	Effect of red wine polyphenol dietary supplementation on two phase II enzymes in liver of hyperhomocysteinemic mice. Food and Chemical Toxicology, 2011, 49, 1764-1769.	3.6	14
35	Protection and reversal of hepatic fibrosis by red wine polyphenols in hyperhomocysteinemic mice. Journal of Nutritional Biochemistry, 2011, 22, 856-864.	4.2	14
36	Dyrk1a activates antioxidant NQO1 expression through an ERK1/2â€“Nrf2 dependent mechanism. Molecular Genetics and Metabolism, 2012, 105, 484-488.	1.1	14

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37	Hypothesis and Theory: Circulating Alzheimer's-Related Biomarkers in Type 2 Diabetes. Insight From the Goto-Kakizaki Rat. Frontiers in Neurology, 2019, 10, 649.	2.4	14
38	Cystathionine beta synthase deficiency induces catalase-mediated hydrogen peroxide detoxification in mice liver. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2008, 1782, 482-488.	3.8	12
39	Early reduction of circulating homocysteine levels in Gotoâ€“Kakizaki rat, a spontaneous nonobese model of type 2 diabetes. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 699-702.	3.8	12
40	The iron component of particulate matter is antiapoptotic: A clue to the development of lung cancer after exposure to atmospheric pollutants?. Biochimie, 2015, 118, 195-206.	2.6	10
41	Elevated plasma von Willebrand factor in a murine model of severe hyperhomocysteinemia. Thrombosis and Haemostasis, 2003, 90, 362-363.	3.4	9
42	Protection and Reversal of Hepatic Fibrosis by Polyphenols. , 2014, , 665-679.		9
43	Hyperhomocysteinemia-induced Dyrk1a downregulation results in cardiomyocyte hypertrophy in rats. International Journal of Cardiology, 2010, 145, 306-307.	1.7	8
44	One-carbon cycle alterations induced by Dyrk1a dosage. Molecular Genetics and Metabolism Reports, 2014, 1, 487-492.	1.1	8
45	Molecular Rescue of DYRK1A Overexpression in Cystathionine Beta Synthase-Deficient Mouse Brain by Enriched Environment Combined with Voluntary Exercise. Journal of Molecular Neuroscience, 2015, 55, 318-323.	2.3	6
46	Inhibition of Extracellular Signalâ€“Regulated Kinase in Liver of Hyperhomocysteinemic Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, e126-7.	2.4	5
47	DYRK1A overexpression decreases plasma lecithin:cholesterol acyltransferase activity and apolipoprotein A-I levels. Molecular Genetics and Metabolism, 2013, 110, 371-377.	1.1	5
48	Corrective effects of hepatotoxicity by hepatic Dyrk1a gene delivery in mice with intermediate hyperhomocysteinemia. Molecular Genetics and Metabolism Reports, 2015, 2, 51-60.	1.1	5
49	Impact of Dyrk1A level on alcohol metabolism. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1495-1503.	3.8	5
50	Effect of lyophilized prune extract on hyperhomocysteinemia in mice. Food and Chemical Toxicology, 2017, 103, 183-187.	3.6	5
51	Homocysteine Metabolism Pathway Is Involved in the Control of Glucose Homeostasis: A Cystathionine Beta Synthase Deficiency Study in Mouse. Cells, 2022, 11, 1737.	4.1	5
52	Mouse liver paraoxonase-1 gene expression is downregulated in hyperhomocysteinemia. Thrombosis and Haemostasis, 2004, 92, 221-2.	3.4	4
53	Effect of cadmium administration in hyperhomocysteinemic mice due to cystathionine beta synthase deficiency. Experimental and Toxicologic Pathology, 2016, 68, 365-370.	2.1	3
54	Ethanol-Induced Changes in Brain of Transgenic Mice Overexpressing DYRK1A. Molecular Neurobiology, 2020, 57, 3195-3205.	4.0	3

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55	Homocysteine is not detected in normal human vessel walls. Atherosclerosis, 2005, 179, 211-212.	0.8	2
56	Plasma nitrate levels are increased in adult Down syndrome patients. Biomarkers, 2013, 18, 373-374.	1.9	2
57	DYRK1A and Activity-Dependent Neuroprotective Protein Comparative Diagnosis Interest in Cerebrospinal Fluid and Plasma in the Context of Alzheimer-Related Cognitive Impairment in Down Syndrome Patients. Biomedicines, 2022, 10, 1380.	3.2	2
58	DYRK1A Overexpression in Mice Downregulates the Gonadotropic Axis and Disturbs Early Stages of Spermatogenesis. Genes, 2021, 12, 1800.	2.4	1