

Marie-Claude Potier

List of Publications by Year in descending order

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83
papers

4,943
citations

117625

34
h-index

102487

66
g-index

93
all docs

93
docs citations

93
times ranked

7957
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification and basic pathology of Alzheimer disease. <i>Acta Neuropathologica</i> , 2009, 118, 5-36.	7.7	805
2	Enrichment or depletion of a GO category within a class of genes: which test?. <i>Bioinformatics</i> , 2007, 23, 401-407.	4.1	630
3	Alzheimer disease models and human neuropathology: similarities and differences. <i>Acta Neuropathologica</i> , 2008, 115, 5-38.	7.7	365
4	Behavioural and psychological symptoms of dementia in Down syndrome: Early indicators of clinical Alzheimer's disease?. <i>Cortex</i> , 2015, 73, 36-61.	2.4	201
5	CYP46A1 inhibition, brain cholesterol accumulation and neurodegeneration pave the way for Alzheimer's disease. <i>Brain</i> , 2015, 138, 2383-2398.	7.6	163
6	Cognitive and neuroimaging features and brain β -amyloidosis in individuals at risk of Alzheimer's disease (INSIGHT-preAD): a longitudinal observational study. <i>Lancet Neurology</i> , The, 2018, 17, 335-346.	10.2	161
7	Local cholesterol increase triggers amyloid precursor protein β -secretase clustering in lipid rafts and rapid endocytosis. <i>FASEB Journal</i> , 2011, 25, 1295-1305.	0.5	153
8	Plasma amyloid β 40/42 ratio predicts cerebral amyloidosis in cognitively normal individuals at risk for Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2019, 15, 764-775.	0.8	122
9	Clathrin adaptor CALM/PICALM is associated with neurofibrillary tangles and is cleaved in Alzheimer's brains. <i>Acta Neuropathologica</i> , 2013, 125, 861-878.	7.7	107
10	Cholesterol 24-hydroxylase defect is implicated in memory impairments associated with Alzheimer-like Tau pathology. <i>Human Molecular Genetics</i> , 2015, 24, 5965-5976.	2.9	96
11	Trisomy for Synaptojanin1 in Down syndrome is functionally linked to the enlargement of early endosomes. <i>Human Molecular Genetics</i> , 2012, 21, 3156-3172.	2.9	92
12	Sex differences in functional and molecular neuroimaging biomarkers of Alzheimer's disease in cognitively normal older adults with subjective memory complaints. <i>Alzheimer's and Dementia</i> , 2018, 14, 1204-1215.	0.8	79
13	Hypoxanthine-guanine phosphoribosyl transferase regulates early developmental programming of dopamine neurons: implications for Lesch-Nyhan disease pathogenesis. <i>Human Molecular Genetics</i> , 2009, 18, 2317-2327.	2.9	78
14	Clathrin-dependent APP endocytosis and β secretion are highly sensitive to the level of plasma membrane cholesterol. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 846-852.	2.4	77
15	Increasing membrane cholesterol of neurons in culture recapitulates Alzheimer's disease early phenotypes. <i>Molecular Neurodegeneration</i> , 2014, 9, 60.	10.8	76
16	Level of PICALM, a key component of clathrin-mediated endocytosis, is correlated with levels of phosphotau and autophagy-related proteins and is associated with tau inclusions in AD, PSP and Pick disease. <i>Neurobiology of Disease</i> , 2016, 94, 32-43.	4.4	66
17	Inside Alzheimer brain with CLARITY: senile plaques, neurofibrillary tangles and axons in 3-D. <i>Acta Neuropathologica</i> , 2014, 128, 457-459.	7.7	64
18	Conserved meningeal lymphatic drainage circuits in mice and humans. <i>Journal of Experimental Medicine</i> , 2022, 219, .	8.5	54

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19	Global/temporal gene expression in diaphragm and hindlimb muscles of dystrophin-deficient (mdx) mice. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C773-C784.	4.6	53
20	Treating enhanced GABAergic inhibition in Down syndrome: Use of GABA $\hat{\pm}$ 5-selective inverse agonists. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 46, 218-227.	6.1	52
21	Chronic Treatment with a Promnesiant GABA-A -Selective Inverse Agonist Increases Immediate Early Genes Expression during Memory Processing in Mice and Rectifies Their Expression Levels in a Down Syndrome Mouse Model. <i>Advances in Pharmacological Sciences</i> , 2011, 2011, 1-11.	3.7	51
22	Gene expression signature of cerebellar hypoplasia in a mouse model of Down syndrome during postnatal development. <i>BMC Genomics</i> , 2009, 10, 138.	2.8	50
23	DYRK1A inhibition and cognitive rescue in a Down syndrome mouse model are induced by new fluoro-DANDY derivatives. <i>Scientific Reports</i> , 2018, 8, 2859.	3.3	49
24	Patterns and severity of vascular amyloid in Alzheimer's disease associated with duplications and missense mutations in APP gene, Down syndrome and sporadic Alzheimer's disease. <i>Acta Neuropathologica</i> , 2018, 136, 569-587.	7.7	47
25	Down syndrome gene dosage imbalance on cerebellum development. <i>Progress in Neurobiology</i> , 2007, 82, 87-94.	5.7	46
26	The prion-like propagation hypothesis in Alzheimer's and Parkinson's disease. <i>Current Opinion in Neurology</i> , 2019, 32, 266-271.	3.6	45
27	Differential default mode network trajectories in asymptomatic individuals at risk for Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2019, 15, 940-950.	0.8	43
28	Homodimerization of Amyloid Precursor Protein at the Plasma Membrane: A homoFRET Study by Time-Resolved Fluorescence Anisotropy Imaging. <i>PLoS ONE</i> , 2012, 7, e44434.	2.5	42
29	Excess Synaptojanin 1 Contributes to Place Cell Dysfunction and Memory Deficits in the Aging Hippocampus in Three Types of Alzheimer's Disease. <i>Cell Reports</i> , 2018, 23, 2967-2975.	6.4	41
30	Cholesterol changes in Alzheimer's disease: methods of analysis and impact on the formation of enlarged endosomes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 839-845.	2.4	39
31	Analysis of gene expression at the single-cell level using microdroplet-based microfluidic technology. <i>Biomicrofluidics</i> , 2011, 5, 024109.	2.4	38
32	Role of cholesterol metabolism in the pathogenesis of Alzheimer's disease. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2014, 17, 319-323.	2.5	38
33	Screening for SARS-CoV-2 by RT-PCR: Saliva or nasopharyngeal swab? Rapid review and meta-analysis. <i>PLoS ONE</i> , 2021, 16, e0253007.	2.5	38
34	Proliferation deficits and gene expression dysregulation in Down's syndrome (Ts1Cje) neural progenitor cells cultured from neurospheres. <i>Journal of Neuroscience Research</i> , 2009, 87, 3143-3152.	2.9	37
35	Age and albumin D site-binding protein control tissue plasminogen activator levels: neurotoxic impact. <i>Brain</i> , 2009, 132, 2219-2230.	7.6	36
36	GABAergic over-inhibition, a promising hypothesis for cognitive deficits in Down syndrome. <i>Free Radical Biology and Medicine</i> , 2018, 114, 33-39.	2.9	36

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37	Multi-omics signature of brain amyloid deposition in asymptomatic individuals at-risk for Alzheimer's disease: The INSIGHT-preAD study. <i>EBioMedicine</i> , 2019, 47, 518-528.	6.1	36
38	Demonstration of the partial agonist profiles of Ro 16-6028 and Ro 17-1812 in mice in vivo. <i>European Journal of Pharmacology</i> , 1988, 156, 169-172.	3.5	34
39	Alterations of specific cortical GABAergic circuits underlie abnormal network activity in a mouse model of Down syndrome. <i>ELife</i> , 2020, 9, .	6.0	31
40	Nanoroughened plasmonic films for enhanced biosensing detection. <i>Nanotechnology</i> , 2009, 20, 225502.	2.6	30
41	Relationship between Basal Forebrain Resting-State Functional Connectivity and Brain Amyloid- β^2 Deposition in Cognitively Intact Older Adults with Subjective Memory Complaints. <i>Radiology</i> , 2019, 290, 167-176.	7.3	30
42	Resting-state posterior alpha rhythms are abnormal in subjective memory complaint seniors with preclinical Alzheimer's neuropathology and high education level: the INSIGHT-preAD study. <i>Neurobiology of Aging</i> , 2020, 90, 43-59.	3.1	30
43	Specific Susceptibility to COVID-19 in Adults with Down Syndrome. <i>NeuroMolecular Medicine</i> , 2021, 23, 561-571.	3.4	30
44	Long-lasting correction of in vivo LTP and cognitive deficits of mice modelling Down syndrome with an $\pm 5\text{\AA}$ -selective GABA _A inverse agonist. <i>British Journal of Pharmacology</i> , 2020, 177, 1106-1118.	5.4	27
45	Picalm reduction exacerbates tau pathology in a murine tauopathy model. <i>Acta Neuropathologica</i> , 2020, 139, 773-789.	7.7	27
46	Ultrastructural and dynamic studies of the endosomal compartment in Down syndrome. <i>Acta Neuropathologica Communications</i> , 2020, 8, 89.	5.2	27
47	Reducing Gabaergic Inhibition Restores Cognitive Functions in a Mouse Model of Down Syndrome. <i>CNS and Neurological Disorders - Drug Targets</i> , 2014, 13, 8-15.	1.4	25
48	A High-Resolution Physical Map of Human Chromosome 21p Using Yeast Artificial Chromosomes. <i>Genome Research</i> , 1999, 9, 1059-1073.	5.5	23
49	Time-gated total internal reflection fluorescence microscopy with a supercontinuum excitation source. <i>Applied Optics</i> , 2009, 48, 553.	2.1	22
50	The amyloid precursor protein is a conserved Wnt receptor. <i>ELife</i> , 2021, 10, .	6.0	22
51	Presynaptic APP levels and synaptic homeostasis are regulated by Akt phosphorylation of huntingtin. <i>ELife</i> , 2020, 9, .	6.0	21
52	Effect of Alzheimer's disease risk and protective factors on cognitive trajectories in subjective memory complainers: An INSIGHT-preAD study. <i>Alzheimer's and Dementia</i> , 2018, 14, 1126-1136.	0.8	20
53	Alzheimer's Disease: Tau Pathology and Dysfunction of Endocytosis. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 583755.	2.9	19
54	Vaccination with Sarkosyl Insoluble PHF-Tau Decrease Neurofibrillary Tangles Formation in Aged Tau Transgenic Mouse Model: A Pilot Study. <i>Journal of Alzheimer's Disease</i> , 2014, 40, S135-S145.	2.6	18

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55	Secernin-1 is a novel phosphorylated tau binding protein that accumulates in Alzheimer's disease and not in other tauopathies. <i>Acta Neuropathologica Communications</i> , 2019, 7, 195.	5.2	18
56	Changing Paradigms in Down Syndrome: The First International Conference of the Trisomy 21 Research Society. <i>Molecular Syndromology</i> , 2016, 7, 251-261.	0.8	16
57	Focusing on cellular biomarkers: The endo-lysosomal pathway in Down syndrome. <i>Progress in Brain Research</i> , 2020, 251, 209-243.	1.4	16
58	On-chip hybridization kinetics for optimization of gene expression experiments. <i>BioTechniques</i> , 2008, 44, 109-117.	1.8	15
59	BDNF and DYRK1A Are Variable and Inversely Correlated in Lymphoblastoid Cell Lines from Down Syndrome Patients. <i>Molecular Neurobiology</i> , 2012, 46, 297-303.	4.0	15
60	<i>In vivo</i> ¹ H MRS study in microlitre voxels in the hippocampus of a mouse model of Down syndrome at 11.7%T. <i>NMR in Biomedicine</i> , 2014, 27, 1143-1150.	2.8	15
61	ROR α Coordinates Thalamic and Cortical Maturation to Instruct Barrel Cortex Development. <i>Cerebral Cortex</i> , 2018, 28, 3994-4007.	2.9	15
62	The lipid phosphatase Synaptojanin 1 undergoes a significant alteration in expression and solubility and is associated with brain lesions in Alzheimer's disease. <i>Acta Neuropathologica Communications</i> , 2020, 8, 79.	5.2	15
63	Specific Triazine Herbicides Induce Amyloid- β 242 Production. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 1593-1605.	2.6	14
64	Aging rather than aneuploidy affects monoamine neurotransmitters in brain regions of Down syndrome mouse models. <i>Neurobiology of Disease</i> , 2017, 105, 235-244.	4.4	14
65	Translating molecular advances in Down syndrome and Fragile X syndrome into therapies. <i>European Neuropsychopharmacology</i> , 2018, 28, 675-690.	0.7	14
66	Editorial: Intellectual Disabilities in Down Syndrome from Birth and Throughout Life: Assessment and Treatment. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 120.	2.0	13
67	CYP46A1 protects against NMDA-mediated excitotoxicity in Huntington's disease: Analysis of lipid raft content. <i>Biochimie</i> , 2018, 153, 70-79.	2.6	13
68	Characterization of the Chicken Telokin Heterogeneity by Time-of-Flight Mass Spectrometry. <i>Biochemistry</i> , 1997, 36, 11021-11026.	2.5	12
69	The 200-kb segmental duplication on human chromosome 21 originates from a pericentromeric dissemination involving human chromosomes 2, 18 and 13. <i>Gene</i> , 2003, 312, 51-59.	2.2	12
70	Neonatal therapy with clenbuterol and salmeterol restores spinogenesis and dendritic complexity in the dentate gyrus of the Ts65Dn model of Down syndrome. <i>Neurobiology of Disease</i> , 2020, 140, 104874.	4.4	12
71	Cholesterol in the senile plaque: often mentioned, never seen. <i>Acta Neuropathologica</i> , 2009, 117, 31-34.	7.7	11
72	Human subiculo-fornico-mamillary system in Alzheimer's disease: Tau seeding by the pillar of the fornix. <i>Acta Neuropathologica</i> , 2020, 139, 443-461.	7.7	10

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73	Transcriptomic Approach to Lesch-Nyhan Disease. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2014, 33, 208-217.	1.1	8
74	Protein interacting with Amyloid Precursor Protein tail-1 (PAT1) is involved in early endocytosis. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 4995-5009.	5.4	8
75	Determination of Lipid Raft Partitioning of Fluorescently-tagged Probes in Living Cells by Fluorescence Correlation Spectroscopy (FCS). <i>Journal of Visualized Experiments</i> , 2012, , e3513.	0.3	6
76	Association of <i>APOE</i> -Independent Alzheimer Disease Polygenic Risk Score With Brain Amyloid Deposition in Asymptomatic Older Adults. <i>Neurology</i> , 2022, 99, .	1.1	6
77	Association of plasma A β ₄₀ /A β ₄₂ ratio and brain A β accumulation: testing a whole-brain PLS-VIP approach in individuals at risk of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2021, 107, 57-69.	3.1	5
78	Converting Alzheimer's Disease Map into a Heavyweight Ontology: A Formal Network to Integrate Data. <i>Lecture Notes in Computer Science</i> , 2019, , 207-215.	1.3	4
79	Cholesterol and ApoE in Alzheimer's disease. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2018, 25, D407.	1.4	1
80	Functional Genomics and Molecular Networks Gene Expression Regulations in Complex Diseases: Down Syndrome as a Case Study. , 2012, , 1-22.		0
81	P2-008: DYRK1A: A NOVEL BIOMARKER FOR ALZHEIMER'S DISEASE (AD) IDENTIFIED IN PLASMA AND LCLS FROM AD AND DS. , 2014, 10, P473-P473.		0
82	P2-007: ENDO-LYSOSOMAL ALTERATIONS IN DOWN SYNDROME BEFORE AND AFTER ALZHEIMER'S DISEASE. , 2014, 10, P473-P473.		0
83	Les d�ficits cognitifs dans la trisomie 21, de la naissance � la d�mence : m�canismes et traitements. <i>Bulletin De L'Academie Nationale De Medecine</i> , 2016, 200, 1543-1557.	0.0	0