Olivier Thibault

List of Publications by Citations

63 papers	3,440 citations	31 h-index	58 g-index
64 ext. papers	3,770 ext. citations	5.4 avg, IF	4.78 L-index

#	Paper	IF	Citations
63	Expansion of the calcium hypothesis of brain aging and Alzheimer's disease: minding the store. *Aging Cell*, **2007**, 6, 307-17	9.9	295
62	Elevated postsynaptic [Ca2+]i and L-type calcium channel activity in aged hippocampal neurons: relationship to impaired synaptic plasticity. *Journal of Neuroscience*, **2001**, 21, 9744-56	6.6	222
61	Hippocampal glucocorticoid receptor activation enhances voltage-dependent Ca2+ conductances: relevance to brain aging. *Proceedings of the National Academy of Sciences of the United States of America*, **1992**, 89, 8527-31	11.5	212
60	Antagonism of NMDA receptors impairs acquisition but not retention of olfactory memory.. *Behavioral Neuroscience*, **1989**, 103, 54-60	2.1	209
59	Hippocampal expression analyses reveal selective association of immediate-early, neuroenergetic, and myelinogenic pathways with cognitive impairment in aged rats. *Journal of Neuroscience*, **2007**, 27, 3098-110	6.6	183
58	Aging changes in voltage-gated calcium currents in hippocampal CA1 neurons. *Journal of Neuroscience*, **1996**, 16, 6286-95	6.6	165
57	Calcium dysregulation in neuronal aging and Alzheimer's disease: history and new directions. *Cell Calcium*, **1998**, 24, 417-33	4	144
56	Early and simultaneous emergence of multiple hippocampal biomarkers of aging is mediated by Ca2+-induced Ca2+ release. *Journal of Neuroscience*, **2006**, 26, 3482-90	6.6	139
55	Hippocampal and cognitive aging across the lifespan: a bioenergetic shift precedes and increased cholesterol trafficking parallels memory impairment. *Journal of Neuroscience*, **2009**, 29, 1805-16	6.6	130
54	Vitamin D prevents cognitive decline and enhances hippocampal synaptic function in aging rats. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E4359-66	11.5	123
53	Calcium channel density and hippocampal cell death with age in long-term culture. *Journal of Neuroscience*, **1997**, 17, 5629-39	6.6	122
52	Long-term pioglitazone treatment improves learning and attenuates pathological markers in a mouse model of Alzheimer's disease. *Journal of Alzheimer's Disease*, **2012**, 30, 943-61	4.3	111
51	Mechanisms of neuronal death in brain aging and Alzheimer's disease: role of endocrine-mediated calcium dyshomeostasis. *Journal of Neurobiology*, **1992**, 23, 1247-60		100
50	Chronic administration of a thiol-proteinase inhibitor blocks long-term potentiation of synaptic responses. *Brain Research*, **1988**, 444, 153-8	3.7	96
49	Increased vulnerability of hippocampal neurons with age in culture: temporal association with increases in NMDA receptor current, NR2A subunit expression and recruitment of L-type calcium channels. *Brain Research*, **2007**, 1151, 20-31	3.7	72
48	Chronic 1alpha,25-(OH)2 vitamin D3 treatment reduces Ca2+ -mediated hippocampal biomarkers of aging. *Cell Calcium*, **2006**, 40, 277-86	4	65
47	Effect of high-fat diet on metabolic indices, cognition, and neuronal physiology in aging F344 rats. *Neurobiology of Aging*, **2013**, 34, 1977-87	5.6	60

46	Distinct modulation of voltage-gated and ligand-gated Ca2+ currents by PPAR-gamma agonists in cultured hippocampal neurons. *Journal of Neurochemistry*, **2009**, 109, 1800-11	6	60
45	Intranasal Insulin Improves Age-Related Cognitive Deficits and Reverses Electrophysiological Correlates of Brain Aging. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2016**, 71, 30-9	6.4	54
44	Reversal of glial and neurovascular markers of unhealthy brain aging by exercise in middle-aged female mice. *PLoS ONE*, **2011**, 6, e26812	3.7	53
43	Aging-related gene expression in hippocampus proper compared with dentate gyrus is selectively associated with metabolic syndrome variables in rhesus monkeys. *Journal of Neuroscience*, **2010**, 30, 6058-71	6.6	50
42	Disrupting function of FK506-binding protein 1b/12.6 induces the Ca□+-dysregulation aging phenotype in hippocampal neurons. *Journal of Neuroscience*, **2011**, 31, 1693-703	6.6	44
41	Expression of alpha 1D subunit mRNA is correlated with L-type Ca2+ channel activity in single neurons of hippocampal "zipper" slices. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 4357-62	11.5	44
40	Long-lasting physiological effects of bath applied N-methyl-D-aspartate. *Brain Research*, **1989**, 476, 170-3	3.7	43
39	Reversal of Aging-Related Neuronal Ca2+ Dysregulation and Cognitive Impairment by Delivery of a Transgene Encoding FK506-Binding Protein 12.6/1b to the Hippocampus. *Journal of Neuroscience*, **2015**, 35, 10878-87	6.6	41
38	Inhibition of the integrin/FAK signaling axis and c-Myc synergistically disrupts ovarian cancer malignancy. *Oncogenesis*, **2017**, 6, e295	6.6	38
37	Effects of long-term pioglitazone treatment on peripheral and central markers of aging. *PLoS ONE*, **2010**, 5, e10405	3.7	36
36	Low Ba2+ and Ca2+ induce a sustained high probability of repolarization openings of L-type Ca2+ channels in hippocampal neurons: physiological implications. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 11792-6	11.5	36
35	CD151-□□1 integrin complexes are prognostic markers of glioblastoma and cooperate with EGFR to drive tumor cell motility and invasion. *Oncotarget*, **2015**, 6, 29675-93	3.3	34
34	Pioglitazone Inhibits the Development of Hyperalgesia and Sensitization of Spinal Nociresponsive Neurons in Type 2 Diabetes. *Journal of Pain*, **2016**, 17, 359-73	5.2	32
33	Hippocampal ẗipperTslice studies reveal a necessary role for calcineurin in the increased activity of L-type Ca(2+) channels with aging. *Neurobiology of Aging*, **2010**, 31, 328-38	5.6	31
32	imaging of prodromal hippocampus CA1 subfield oxidative stress in models of Alzheimer disease and Angelman syndrome. *FASEB Journal*, **2017**, 31, 4179-4186	0.9	29
31	Reduction in neuronal L-type calcium channel activity in a double knock-in mouse model of AlzheimerTs disease. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2012**, 1822, 546-9	6.9	29
30	Aged rats are hypo-responsive to acute restraint: implications for psychosocial stress in aging. *Frontiers in Aging Neuroscience*, **2014**, 6, 13	5.3	28
29	Action potential throughput in aged rat hippocampal neurons: regulation by selective forms of hyperpolarization. *Neurobiology of Aging*, **2009**, 30, 2053-64	5.6	27

28	Sustained Ca2+-induced Ca2+-release underlies the post-glutamate lethal Ca2+ plateau in older cultured hippocampal neurons. *European Journal of Pharmacology*, **2002**, 447, 189-200	5.3	26
27	Deep sleep and parietal cortex gene expression changes are related to cognitive deficits with age. *PLoS ONE*, **2011**, 6, e18387	3.7	24
26	Insulin Receptor Plasma Membrane Levels Increased by the Progesterone Receptor Membrane Component 1. *Molecular Pharmacology*, **2018**, 94, 665-673	4.3	23
25	Hippocampal calcium dysregulation at the nexus of diabetes and brain aging. *European Journal of Pharmacology*, **2013**, 719, 34-43	5.3	22
24	Broadening the definition of brain insulin resistance in aging and Alzheimer's disease. *Experimental Neurology*, **2019**, 313, 79-87	5.7	22
23	Impact of Single or Repeated Dose Intranasal Zinc-free Insulin in Young and Aged F344 Rats on Cognition, Signaling, and Brain Metabolism. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2017**, 72, 189-197	6.4	21
22	Calcium's role as nuanced modulator of cellular physiology in the brain. *Biochemical and Biophysical Research Communications*, **2017**, 483, 981-987	3.4	21
21	Imaging of a glucose analog, calcium and NADH in neurons and astrocytes: dynamic responses to depolarization and sensitivity to pioglitazone. *Cell Calcium*, **2011**, 50, 548-58	4	19
20	Group I metabotropic glutamate receptor inhibition selectively blocks a prolonged Ca(2+) elevation associated with age-dependent excitotoxicity. *Neuroscience*, **2002**, 112, 183-94	3.9	19
19	FK506-Binding Protein 12.6/1b, a Negative Regulator of [Ca], Rescues Memory and Restores Genomic Regulation in the Hippocampus of Aging Rats. *Journal of Neuroscience*, **2018**, 38, 1030-1041	6.6	14
18	Novel calcium-related targets of insulin in hippocampal neurons. *Neuroscience*, **2017**, 364, 130-142	3.9	13
17	Single-channel and whole-cell studies of calcium currents in young and aged rat hippocampal slice neurons. *Journal of Neuroscience Methods*, **1995**, 59, 77-83	3	13
16	Aging-Related Calcium Dysregulation in Rat Entorhinal Neurons Homologous with the Human Entorhinal Neurons in which Alzheimer's Disease Neurofibrillary Tangles First Appear. *Journal of Alzheimer's Disease*, **2018**, 66, 1371-1378	4.3	8
15	Deletion of tetraspanin CD151 alters the Wnt oncogene-induced mammary tumorigenesis: A cell type-linked function and signaling. *Neoplasia*, **2019**, 21, 1151-1163	6.4	6
14	Long-Term Intranasal Insulin Aspart: A Profile of Gene Expression, Memory, and Insulin Receptors in Aged F344 Rats. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2020**, 75, 1021-1030	6.4	6
13	Expression of a Constitutively Active Human Insulin Receptor in Hippocampal Neurons Does Not Alter VGCC Currents. *Neurochemical Research*, **2019**, 44, 269-280	4.6	5
12	Preface. Ca2+ and neuronal pathology. *European Journal of Pharmacology*, **2002**, 447, 115-7	5.3	4
11	BRD4 modulates vulnerability of triple-negative breast cancer to targeting of integrin-dependent signaling pathways. *Cellular Oncology (Dordrecht)*, **2020**, 43, 1049-1066	7.2	4

List of Publications

10	Short-lived diabetes in the young-adult ZDF rat does not exacerbate neuronal Ca(2+) biomarkers of aging. *Brain Research*, **2015**, 1621, 214-21	3.7	3
9	Brain Neuron Preparations for the Study of Aging Changes in Calcium Potentials and Currents. *Methods*, **1994**, 4, 177-181		3
8	Electrophysiological and Imaging Calcium Biomarkers of Aging in Male and Female 5FAD Mice. *Journal of Alzheimer's Disease*, **2020**, 78, 1419-1438	4.3	2
7	Elevating Insulin Signaling Using a Constitutively Active Insulin Receptor Increases Glucose Metabolism and Expression of GLUT3 in Hippocampal Neurons. *Frontiers in Neuroscience*, **2020**, 14, 668	5.1	2
6	Neuronal Calcium Imaging, Excitability, and Plasticity Changes in the Aldh2-/- Mouse Model of Sporadic Alzheimer's Disease. *Journal of Alzheimer's Disease*, **2020**, 77, 1623-1637	4.3	2
5	Molecular elevation of insulin receptor signaling improves memory recall in aged Fischer 344 rats. *Aging Cell*, **2020**, 19, e13220	9.9	1
4	Dependence of glucose transport in neuronal model systems on autophagy and GAPDH (glyceraldehyde-3 phosphate dehydrogenase) activity. *Brain Research*, **2021**, 147747	3.7	0
3	Epididymal Fat-Derived Sympathoexcitatory Signals Exacerbate Neurogenic Hypertension in Obese Male Mice Exposed to Early Life Stress. *Hypertension*, **2021**, 78, 1434-1449	8.5	0
2	Astrocyte activation and neurovascular function in a diet-based model of vascular contributions to cognitive impairment and dementia (VCID). *Alzheimer's and Dementia*, **2020**, 16, e043618	1.2	
1	The Effects of Bacterial Endotoxin (LPS) on Cardiac and Neural Function in Various Animal Models. *FASEB Journal*, **2019**, 33, 859.9	0.9	