

# Arnaud Monteil

## List of Publications by Year in descending order

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40  
papers

3,204  
citations

236925

25  
h-index

302126

39  
g-index

46  
all docs

46  
docs citations

46  
times ranked

3519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Splicing of $\alpha 1A$ subunit gene generates phenotypic variants of P- and Q-type calcium channels. <i>Nature Neuroscience</i> , 1999, 2, 407-415.	14.8	393
2	Silencing of the Cav3.2 T-type calcium channel gene in sensory neurons demonstrates its major role in nociception. <i>EMBO Journal</i> , 2005, 24, 315-324.	7.8	388
3	Direct inhibition of T-type calcium channels by the endogenous cannabinoid anandamide. <i>EMBO Journal</i> , 2001, 20, 7033-7040.	7.8	244
4	Molecular and Functional Properties of the Human $\alpha 1G$ Subunit That Forms T-type Calcium Channels. <i>Journal of Biological Chemistry</i> , 2000, 275, 6090-6100.	3.4	209
5	Specific contribution of human T-type calcium channel isoforms ( $\alpha 1G$ , $\alpha 1H$ and $\alpha 1I$ ) to T-type calcium currents in HEK293 cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 10743-10750.	2.9	203
6	Alternatively Spliced $\alpha 1G$ (CaV3.1) Intracellular Loops Promote Specific T-Type Ca <sup>2+</sup> Channel Gating Properties. <i>Biophysical Journal</i> , 2001, 80, 1238-1250.	0.5	126
7	Specific Properties of T-type Calcium Channels Generated by the Human $\alpha 1I$ Subunit. <i>Journal of Biological Chemistry</i> , 2000, 275, 16530-16535.	3.4	124
8	De Novo Mutations in NALCN Cause a Syndrome Characterized by Congenital Contractures of the Limbs and Face, Hypotonia, and Developmental Delay. <i>American Journal of Human Genetics</i> , 2015, 96, 462-473.	6.2	124
9	The NALCN ion channel is activated by M3 muscarinic receptors in a pancreatic $\beta$ cell line. <i>EMBO Reports</i> , 2009, 10, 873-880.	4.5	116
10	The sodium leak channel, NALCN, in health and disease. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 132.	3.7	116
11	A Cav3.2/Syntaxin-1A Signaling Complex Controls T-type Channel Activity and Low-threshold Exocytosis. <i>Journal of Biological Chemistry</i> , 2012, 287, 2810-2818.	3.4	110
12	Overexpression of T-type calcium channels in HEK293 cells increases intracellular calcium without affecting cellular proliferation. <i>FEBS Letters</i> , 2000, 478, 166-172.	2.8	94
13	A Recurrent Mutation in CACNA1G Alters Cav3.1 T-Type Calcium-Channel Conduction and Causes Autosomal-Dominant Cerebellar Ataxia. <i>American Journal of Human Genetics</i> , 2015, 97, 726-737.	6.2	87
14	Mutational analysis of CACNA1G in idiopathic generalized epilepsy. <i>Human Mutation</i> , 2007, 28, 524-525.	2.5	83
15	T-type calcium currents in rat cardiomyocytes during postnatal development: contribution to hormone secretion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H2540-H2548.	3.2	80
16	A Destructive Interaction Mechanism Accounts for Dominant-Negative Effects of Misfolded Mutants of Voltage-Gated Calcium Channels. <i>Journal of Neuroscience</i> , 2008, 28, 4501-4511.	3.6	71
17	Voltage-gated calcium channels in genetic diseases. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 1169-1174.	4.1	67
18	Regulation of T-type calcium channels: Signalling pathways and functional implications. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 947-952.	4.1	62

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19	$\hat{I}_{\pm 1H}$ mRNA in single skeletal muscle fibres accounts for T-type calcium current transient expression during fetal development in mice. <i>Journal of Physiology</i> , 2002, 539, 681-691.	2.9	55
20	Cav3.2 T-type calcium channels shape electrical firing in mouse Lamina II neurons. <i>Scientific Reports</i> , 2019, 9, 3112.	3.3	45
21	The $\hat{I}_{\pm 1T}$ -type calcium channel exhibits faster gating properties when overexpressed in neuroblastoma/glioma NG 108-15 cells. <i>European Journal of Neuroscience</i> , 2001, 14, 1678-1686.	2.6	44
22	Molecular Basis of Cav2.3 Calcium Channels in Rat Nociceptive Neurons. <i>Journal of Biological Chemistry</i> , 2007, 282, 4757-4764.	3.4	44
23	Neuronal Cav3 channelopathies: recent progress and perspectives. <i>Pflugers Archiv European Journal of Physiology</i> , 2020, 472, 831-844.	2.8	41
24	NALCN Ion Channels Have Alternative Selectivity Filters Resembling Calcium Channels or Sodium Channels. <i>PLoS ONE</i> , 2013, 8, e55088.	2.5	40
25	The Sodium $\hat{I}_{\pm 1L}$ Leak Has Finally Been Plugged. <i>Neuron</i> , 2007, 54, 505-507.	8.1	32
26	Calmodulin regulates Cav3 T-type channels at their gating brake. <i>Journal of Biological Chemistry</i> , 2017, 292, 20010-20031.	3.4	29
27	Properties and role of voltage-dependent calcium channels during mouse skeletal muscle differentiation. <i>Journal of Muscle Research and Cell Motility</i> , 2006, 27, 75-81.	2.0	27
28	Functional expression of CLIFAHDD and IHPRF pathogenic variants of the NALCN channel in neuronal cells reveals both gain- and loss-of-function properties. <i>Scientific Reports</i> , 2019, 9, 11791.	3.3	26
29	Determinants of the differential gating properties of Cav3.1 and Cav3.3 T-type channels: A role of domain IV?. <i>Neuroscience</i> , 2006, 143, 717-728.	2.3	22
30	Gd <sup>3+</sup> and Calcium Sensitive, Sodium Leak Currents Are Features of Weak Membrane-Glass Seals in Patch Clamp Recordings. <i>PLoS ONE</i> , 2014, 9, e98808.	2.5	18
31	The NALCN ion channel is a new actor in pancreatic $\hat{I}_{\pm 2}$ -cell physiology. <i>Islets</i> , 2010, 2, 54-56.	1.8	17
32	A sodium background conductance controls the spiking pattern of mouse adrenal chromaffin cells <i>in situ</i> . <i>Journal of Physiology</i> , 2021, 599, 1855-1883.	2.9	14
33	Interferon-inducible protein (IFI) 16 regulates Chikungunya and Zika virus infection in human skin fibroblasts. <i>EXCLI Journal</i> , 2019, 18, 467-476.	0.7	13
34	Inhibition of Cav3.2 T-type Calcium Channels by Its Intracellular I-II Loop. <i>Journal of Biological Chemistry</i> , 2015, 290, 16168-16176.	3.4	10
35	Sodium background currents in endocrine/neuroendocrine cells: Towards unraveling channel identity and contribution in hormone secretion. <i>Frontiers in Neuroendocrinology</i> , 2021, 63, 100947.	5.2	10
36	Spécificités fonctionnelles des canaux calciques de type T et leurs rôles dans la différenciation neuronale. <i>Société De Biologie Journal</i> , 2003, 197, 235-247.	0.3	7

#	ARTICLE	IF	CITATIONS
37	The sodium leak channel NALCN regulates cell excitability of pituitary endocrine cells. FASEB Journal, 2021, 35, e21400.	0.5	6
38	The multifunctional protein GC1q-R interacts specifically with the i3 loop arginine cluster of the vasopressin V2 receptor. Regulatory Peptides, 2008, 148, 76-87.	1.9	4
39	The Voltage-Gated Sodium Channel Beta4 Subunit Maintains Epithelial Phenotype in Mammary Cells. Cells, 2021, 10, 1624.	4.1	2
40	Post-Genomic Insights into T-Type Calcium Channel Functions in Neurons. , 2005, , 326-333.		0