

Fabrice Duprat

List of Publications by Year in descending order

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52
papers

7,570
citations

87843

38
h-index

182361

51
g-index

54
all docs

54
docs citations

54
times ranked

5986
citing authors

#	ARTICLE	IF	CITATIONS
1	A mammalian two pore domain mechano-gated S-like K ⁺ channel. EMBO Journal, 1998, 17, 4283-4290.	3.5	572
2	TASK, a human background K ⁺ channel to sense external pH variations near physiological pH. EMBO Journal, 1997, 16, 5464-5471.	3.5	568
3	TREK-1, a K ⁺ channel involved in neuroprotection and general anesthesia. EMBO Journal, 2004, 23, 2684-2695.	3.5	480
4	A neuronal two P domain K ⁺ channel stimulated by arachidonic acid and polyunsaturated fatty acids. EMBO Journal, 1998, 17, 3297-3308.	3.5	418
5	TREK-1, a K ⁺ channel involved in polymodal pain perception. EMBO Journal, 2006, 25, 2368-2376.	3.5	363
6	Cloning and Expression of a Novel pH-sensitive Two Pore Domain K ⁺ Channel from Human Kidney. Journal of Biological Chemistry, 1998, 273, 30863-30869.	1.6	319
7	Polycystin-1 and -2 Dosage Regulates Pressure Sensing. Cell, 2009, 139, 587-596.	13.5	299
8	Hippocampal LTD Expression Involves a Pool of AMPARs Regulated by the NSF-GluR2 Interaction. Neuron, 1999, 24, 389-399.	3.8	298
9	PDZ Proteins Interacting with C-Terminal GluR2/3 Are Involved in a PKC-Dependent Regulation of AMPA Receptors at Hippocampal Synapses. Neuron, 2000, 28, 873-886.	3.8	297
10	Cloning provides evidence for a family of inward rectifier and G-protein coupled K ⁺ channels in the brain. FEBS Letters, 1994, 353, 37-42.	1.3	271
11	Piezo1 in Smooth Muscle Cells Is Involved in Hypertension-Dependent Arterial Remodeling. Cell Reports, 2015, 13, 1161-1171.	2.9	250
12	Molecular Properties of Neuronal G-protein-activated Inwardly Rectifying K ⁺ Channels. Journal of Biological Chemistry, 1995, 270, 28660-28667.	1.6	232
13	A phospholipid sensor controls mechanogating of the K ⁺ channel TREK-1. EMBO Journal, 2005, 24, 44-53.	3.5	215
14	New Modulatory \hat{I}_{\pm} Subunits for Mammalian ShabK ⁺ Channels. Journal of Biological Chemistry, 1997, 272, 24371-24379.	1.6	185
15	K ⁺ -dependent Cerebellar Granule Neuron Apoptosis. Journal of Biological Chemistry, 2003, 278, 32068-32076.	1.6	177
16	Mechanisms underlying excitatory effects of group I metabotropic glutamate receptors via inhibition of 2P domain K ⁺ channels. EMBO Journal, 2003, 22, 5403-5411.	3.5	171
17	Susceptibility of cloned K ⁺ channels to reactive oxygen species.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 11796-11800.	3.3	171
18	Regulation of Synaptic Strength and AMPA Receptor Subunit Composition by PICK1. Journal of Neuroscience, 2004, 24, 5381-5390.	1.7	160

#	ARTICLE	IF	CITATIONS
19	Genomic and Functional Characteristics of Novel Human Pancreatic 2P Domain K ⁺ Channels. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 249-256.	1.0	157
20	Heterologous Multimeric Assembly Is Essential for K ⁺ Channel Activity of Neuronal and Cardiac G-Protein-Activated Inward Rectifiers. <i>Biochemical and Biophysical Research Communications</i> , 1995, 212, 657-663.	1.0	150
21	Post-translational remodeling of ryanodine receptor induces calcium leak leading to Alzheimer's disease-like pathologies and cognitive deficits. <i>Acta Neuropathologica</i> , 2017, 134, 749-767.	3.9	130
22	Piezol ¹ -dependent stretch ¹ -activated channels are inhibited by Polycystin ² in renal tubular epithelial cells. <i>EMBO Reports</i> , 2013, 14, 1143-1148.	2.0	127
23	Canonical TRP channels and mechanotransduction: from physiology to disease states. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 460, 571-581.	1.3	120
24	The structure, function and distribution of the mouse TWIK-1 K ⁺ channel. <i>FEBS Letters</i> , 1997, 402, 28-32.	1.3	109
25	A pH-sensitive Yeast Outward Rectifier K ⁺ Channel with Two Pore Domains and Novel Gating Properties. <i>Journal of Biological Chemistry</i> , 1996, 271, 4183-4187.	1.6	104
26	AKAP150, a switch to convert mechano-, pH- and arachidonic acid-sensitive TREK K ⁺ channels into open leak channels. <i>EMBO Journal</i> , 2006, 25, 5864-5872.	3.5	101
27	A New K ⁺ Channel β Subunit to Specifically Enhance Kv2.2 (CDRK) Expression. <i>Journal of Biological Chemistry</i> , 1996, 271, 26341-26348.	1.6	92
28	TRP channels and mechanosensory transduction: insights into the arterial myogenic response. <i>Pflügers Archiv European Journal of Physiology</i> , 2008, 456, 529-540.	1.3	86
29	The mechano-gated K ^{2P} channel TREK-1. <i>European Biophysics Journal</i> , 2009, 38, 293-303.	1.2	85
30	Lysophosphatidic Acid-operated K ⁺ Channels. <i>Journal of Biological Chemistry</i> , 2005, 280, 4415-4421.	1.6	82
31	Up- and down-regulation of the mechano-gated K ^{2P} channel TREK-1 by PIP ₂ and other membrane phospholipids. <i>Pflügers Archiv European Journal of Physiology</i> , 2007, 455, 97-103.	1.3	72
32	The TASK background K ^{2P} channels: chemo- and nutrient sensors. <i>Trends in Neurosciences</i> , 2007, 30, 573-580.	4.2	68
33	Sensing pressure in the cardiovascular system: Gq-coupled mechanoreceptors and TRP channels. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 83-89.	0.9	68
34	Pancreatic two P domain K ⁺ channels TALK-1 and TALK-2 are activated by nitric oxide and reactive oxygen species. <i>Journal of Physiology</i> , 2005, 562, 235-244.	1.3	66
35	Mechanoprotection by Polycystins against Apoptosis Is Mediated through the Opening of Stretch-Activated K ^{2P} Channels. <i>Cell Reports</i> , 2012, 1, 241-250.	2.9	54
36	Polycystins and partners: proposed role in mechanosensitivity. <i>Journal of Physiology</i> , 2014, 592, 2453-2471.	1.3	54

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37	Antipsychotics inhibit TREK but not TRAAK channels. <i>Biochemical and Biophysical Research Communications</i> , 2007, 354, 284-289.	1.0	52
38	A two-hit story: Seizures and genetic mutation interaction sets phenotype severity in SCN1A epilepsies. <i>Neurobiology of Disease</i> , 2019, 125, 31-44.	2.1	51
39	Dominant negative chimeras provide evidence for homo and heteromultimeric assembly of inward rectifier K ⁺ channel proteins via their N-terminal end. <i>FEBS Letters</i> , 1996, 378, 64-68.	1.3	41
40	Membrane Potential-regulated Transcription of the Resting K ⁺ Conductance TASK-3 via the Calcineurin Pathway. <i>Journal of Biological Chemistry</i> , 2006, 281, 28910-28918.	1.6	30
41	Pkd1-inactivation in vascular smooth muscle cells and adaptation to hypertension. <i>Laboratory Investigation</i> , 2011, 91, 24-32.	1.7	30
42	Arterial Myogenic Activation through Smooth Muscle Filamin A. <i>Cell Reports</i> , 2016, 14, 2050-2058.	2.9	29
43	Glur2 protein-protein interactions and the regulation of AMPA receptors during synaptic plasticity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 715-720.	1.8	23
44	Initiation of migraine-related cortical spreading depolarization by hyperactivity of GABAergic neurons and NaV1.1 channels. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	23
45	Slower Piezo1 Inactivation in Dehydrated Hereditary Stomatocytosis (Xerocytosis). <i>Biophysical Journal</i> , 2013, 105, 833-834.	0.2	21
46	Smooth muscle filamin A is a major determinant of conduit artery structure and function at the adult stage. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 1151-1160.	1.3	20
47	New Insights Into the Role of Cav2 Protein Family in Calcium Flux Deregulation in Fmr1-KO Neurons. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 342.	1.4	17
48	Selective Involvement of Serum Response Factor in Pressure-Induced Myogenic Tone in Resistance Arteries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 339-346.	1.1	16
49	Dynamic regulation of TREK1 gating by Polycystin 2 via a Filamin A-mediated cytoskeletal Mechanism. <i>Scientific Reports</i> , 2017, 7, 17403.	1.6	16
50	TMEM33 regulates intracellular calcium homeostasis in renal tubular epithelial cells. <i>Nature Communications</i> , 2019, 10, 2024.	5.8	15
51	Cholinergic modulation inhibits cortical spreading depression in mouse neocortex through activation of muscarinic receptors and decreased excitatory/inhibitory drive. <i>Neuropharmacology</i> , 2020, 166, 107951.	2.0	11
52	Lysophosphatidic acid-operated K ⁺ channels.. <i>Journal of Biological Chemistry</i> , 2013, 288, 26178.	1.6	0