Gildas Loussouarn

List of Publications by Year
in descending order

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39 papers	2,864 citations	279798 23 h-index	302126 39 g-index
39 all docs	39 docs citations	39 times ranked	3259 citing authors

#	Article	IF	Citations
1	Polyethylenimine but Not Cationic Lipids Promotes Transgene Delivery to the Nucleus in Mammalian Cells. Journal of Biological Chemistry, 1998, 273, 7507-7511.	3.4	653
2	Ventricular Fibrillation with Prominent Early Repolarization Associated with a Rare Variant of KCNJ8/K_{ATP} Channel. Journal of Cardiovascular Electrophysiology, 2009, 20, 93-98.	1.7	269
3	A Novel Method for Measurement of Submembrane ATP Concentration. Journal of Biological Chemistry, 2000, 275, 30046-30049.	3.4	257
4	Phosphatidylinositol-4,5-bisphosphate, PIP2, controls KCNQ1/KCNE1 voltage-gated potassium channels: a functional homology between voltage-gated and inward rectifier K+ channels. EMBO Journal, 2003, 22, 5412-5421.	7.8	203
5	The Kinetic and Physical Basis of KATP Channel Gating: Toward a Unified Molecular Understanding. Biophysical Journal, 2000, 78, 2334-2348.	0.5	157
6	Multifocal Ectopic Purkinje-Related Premature Contractions. Journal of the American College of Cardiology, 2012, 60, 144-156.	2.8	156
7	Structure of a Prokaryotic Sodium Channel Pore Reveals Essential Gating Elements and an Outer Ion Binding Site Common to Eukaryotic Channels. Journal of Molecular Biology, 2014, 426, 467-483.	4.2	129
8	Impaired KCNQ1â€“KCNE1 and Phosphatidylinositol-4,5-Bisphosphate Interaction Underlies the Long QT Syndrome. Circulation Research, 2005, 96, 730-739.	4.5	106
9	Kv7.1 (KCNQ1) properties and channelopathies. Journal of Physiology, 2008, 586, 1785-1789.	2.9	96
10	Structure and Dynamics of the Pore of Inwardly Rectifying KATP Channels. Journal of Biological Chemistry, 2000, 275, 1137-1144.	3.4	87
11	Delayed rectifier K+ currents and cardiac repolarization. Journal of Molecular and Cellular Cardiology, 2010, 48, 37-44.	1.9	71
12	Molecular Basis of Inward Rectification. Journal of General Physiology, 2004, 124, 541-554.	1.9	68
13	ATP Interaction with the Open State of the KATP Channel. Biophysical Journal, 2001, 80, 719-728.	0.5	53
14	The S4-S5 Linker of KCNQ1 Channels Forms a Structural Scaffold with the S6 Segment Controlling Gate Closure. Journal of Biological Chemistry, 2011, 286, 717-725.	3.4	50
15	Flexibility of the Kir6.2 inward rectifier K+ channel pore. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 4227-4232.	7.1	49
16	KCNQ1 Channels Voltage Dependence through a Voltage-dependent Binding of the S4-S5 Linker to the Pore Domain. Journal of Biological Chemistry, 2011, 286, 707-716.	3.4	49
17	I Ks response to protein kinase A-dependent KCNQ1 phosphorylation requires direct interaction with microtubules. Cardiovascular Research, 2008, 79, 427-435.	3.8	47
18	Dynamic Sensitivity of ATP-sensitive K+Channels to ATP. Journal of Biological Chemistry, 2001, 276, 29098-29103.	3.4	33

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19	The Signaling Adaptor Protein CD3Î¶ Is a Negative Regulator of Dendrite Development in Young Neurons. Molecular Biology of the Cell, 2008, 19, 2444-2456.	2.1	33
20	C-terminal phosphorylation of NaV1.5 impairs FGF13-dependent regulation of channel inactivation. Journal of Biological Chemistry, 2017, 292, 17431-17448.	3.4	33
21	Phosphatidylinositol-4,5-Bisphosphate (PIP2) Stabilizes the Open Pore Conformation of the Kv11.1 (hERG) Channel. Biophysical Journal, 2010, 99, 1110-1118.	0.5	31
22	Structural Basis of Inward Rectifying Potassium Channel Gating. Trends in Cardiovascular Medicine, 2002, 12, 253-258.	4.9	25
23	LQT1-associated Mutations Increase KCNQ1 Proteasomal Degradation Independently of Derlin-1. Journal of Biological Chemistry, 2009, 284, 5250-5256.	3.4	25
24	Marine n-3 PUFAs modulate IKs gating, channel expression, and location in membrane microdomains. Cardiovascular Research, 2015, 105, 223-232.	3.8	24
25	A Long QT Mutation Substitutes Cholesterol for Phosphatidylinositol-4,5-Bisphosphate in KCNQ1 Channel Regulation. PLoS ONE, 2014, 9, e93255.	2.5	20
26	Expression of human ERG K channels in the mouse heart exerts anti-arrhythmic activity. Cardiovascular Research, 2005, 65, 128-137.	3.8	19
27	Molecular Basis of Inward Rectification: Structural Features of the Blocker Defined by Extended Polyamine Analogs. Molecular Pharmacology, 2005, 68, 298-304.	2.3	19
28	KCNE1-KCNQ1 osmoregulation by interaction of phosphatidylinositol-4,5-bisphosphate with Mg²⁺and polyamines. Journal of Physiology, 2010, 588, 3471-3483.	2.9	18
29	Human model of IRX5 mutations reveals key role for this transcription factor in ventricular conduction. Cardiovascular Research, 2021, 117, 2092-2107.	3.8	17
30	hERG S4-S5 linker acts as a voltage-dependent ligand that binds to the activation gate and locks it in a closed state. Scientific Reports, 2017, 7, 113.	3.3	15
31	Voltage-dependent activation in EAG channels follows a ligand-receptor rather than a mechanical-lever mechanism. Journal of Biological Chemistry, 2019, 294, 6506-6521.	3.4	11
32	Modelling sudden cardiac death risks factors in patients with coronavirus disease of 2019: the hydroxychloroquine and azithromycin case. Europace, 2021, 23, 1124-1136.	1.7	8
33	Transfer of Rolf S3-S4 Linker to hERG Eliminates Activation Gating but Spares Inactivation. Biophysical Journal, 2009, 97, 1323-1334.	0.5	7
34	A standardised hERG phenotyping pipeline to evaluate KCNH2 genetic variant pathogenicity. Clinical and Translational Medicine, 2021, 11, e609.	4.0	7
35	Cholesterol regulation of ion channels. Channels, 2013, 7, 415-416.	2.8	5
36	Phosphatidylinositol (4,5)-bisphosphate-mediated pathophysiological effect of HIV-1 Tat protein. Biochimie, 2017, 141, 80-85.	2.6	5

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37	A consistent arrhythmogenic trait in Brugada syndrome cellular phenotype. Clinical and Translational Medicine, 2021, 11, e413.	4.0	5
38	Up-regulation of voltage-gated sodium channels by peptides mimicking S4-S5 linkers reveals a variation of the ligand-receptor mechanism. Scientific Reports, 2020, 10, 5852.	3.3	3
39	Neural modulation of ion channels in cardiac arrhythmias: Clinical implications and future investigations. Heart Rhythm, 2010, 7, 847-849.	0.7	1