Nicole Schmitt

List of Publications by Year
in descending order

81	3,107	159585 30	168389 53
papers	citations	h-index	g-index

82	82	82	3953
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Whole-Exome Sequencing Implicates Neuronal Calcium Channel with Familial Atrial Fibrillation. Frontiers in Genetics, 2022, 13, 806429.	2.3	1
2	A benzodiazepine activator locks Kv7.1 channels open by electro-mechanical uncoupling. Communications Biology, 2022, 5, 301.	4.4	7
3	The Tunicate Metabolite 2-(3,5-Diiodo-4-methoxyphenyl)ethan-1-amine Targets Ion Channels of Vertebrate Sensory Neurons. ACS Chemical Biology, 2021, 16, 1654-1662.	3.4	1
4	Functional phenotype variations of two novel K_V7.1 mutations identified in patients with Long QT syndrome. PACE - Pacing and Clinical Electrophysiology, 2020, 43, 210-216.	1.2	4
5	Investigating gene-microRNA networks in atrial fibrillation patients with mitral valve regurgitation. PLoS ONE, 2020, 15, e0232719.	2.5	14
6	A Novel Loss-of-Function Variant in the Chloride Ion Channel Gene Clcn2 Associates with Atrial Fibrillation. Scientific Reports, 2020, 10, 1453.	3.3	10
7	Reappraisal of variants previously linked with sudden infant death syndrome: results from three population-based cohorts. European Journal of Human Genetics, 2019, 27, 1427-1435.	2.8	9
8	Deletion in mice of Xâ€linked, Brugada syndromeâ€“and atrial fibrillationâ€“associated Kcne5 augments ventricular K _v currents and predisposes to ventricular arrhythmia. FASEB Journal, 2019, 33, 2537-2552.	0.5	26
9	Multiple genetic variations in sodium channel subunits in a case of sudden infant death syndrome. PACE - Pacing and Clinical Electrophysiology, 2018, 41, 620-626.	1.2	4
10	Functional consequences of genetic variation in sodium channel modifiers in early onset lone atrial fibrillation. Personalized Medicine, 2018, 15, 93-102.	1.5	4
11	<scp>SUMO</scp> coâ€expression modifies <scp>K_V</scp>11.1 channel activity. Acta Physiologica, 2018, 222, e12974.	3.8	6
12	Homozygosity for SCN4A Arg1142Gln causes congenital myopathy with variable disease expression. Neurology: Genetics, 2018, 4, e267.	1.9	9
13	PKD Phosphorylation as Novel Pathway of KV11.1 Regulation. Cellular Physiology and Biochemistry, 2018, 47, 1742-1750.	1.6	2
14	Spinal dorsal horn astrocytes release GABA in response to synaptic activation. Journal of Physiology, 2018, 596, 4983-4994.	2.9	47
15	Trafficking of Kv2.1 Channels to the Axon Initial Segment by a Novel Nonconventional Secretory Pathway. Journal of Neuroscience, 2017, 37, 11523-11536.	3.6	44
16	Deep sequencing of atrial fibrillation patients with mitral valve regurgitation shows no evidence of mosaicism but reveals novel rare germline variants. Heart Rhythm, 2017, 14, 1531-1538.	0.7	12
17	In silico assessment of genetic variation in KCNA5 reveals multiple mechanisms of human atrial arrhythmogenesis. PLoS Computational Biology, 2017, 13, e1005587.	3.2	32
18	Polyunsaturated fatty acids are potent openers of human Mâ€channels expressed in Xenopus laevis oocytes. Acta Physiologica, 2016, 218, 28-37.	3.8	16

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19	Iron Overload Leading to Torsades de Pointes in Î²-Thalassemia and Long QT Syndrome. Cardiac Electrophysiology Clinics, 2016, 8, 247-256.	1.7	3
20	Structural interplay of KV7.1 and KCNE1 is essential for normal repolarization and is compromised in short QT syndrome 2 (KV7.1-A287T). HeartRhythm Case Reports, 2016, 2, 521-529.	0.4	4
21	The anticonvulsant retigabine suppresses neuronal KV2-mediated currents. Scientific Reports, 2016, 6, 35080.	3.3	25
22	The two-pore domain potassium channel, TWIK-1, has a role in the regulation of heart rate and atrial size. Journal of Molecular and Cellular Cardiology, 2016, 97, 24-35.	1.9	28
23	pH-dependent inhibition of K2P3.1 prolongs atrial refractoriness in whole hearts. Pflugers Archiv European Journal of Physiology, 2016, 468, 643-654.	2.8	19
24	Auxiliary KCNE subunits modulate both homotetrameric Kv2.1 and heterotetrameric Kv2.1/Kv6.4 channels. Scientific Reports, 2015, 5, 12813.	3.3	22
25	High incidence of functional ion-channel abnormalities in a consecutive Long QT cohort with novel missense genetic variants of unknown significance. Scientific Reports, 2015, 5, 10009.	3.3	15
26	Protein kinase A stimulates Kv7.1 surface expression by regulating Nedd4-2-dependent endocytic trafficking. American Journal of Physiology - Cell Physiology, 2015, 309, C693-C706.	4.6	8
27	Polyunsaturated fatty acid analogs act antiarrhythmically on the cardiac I _{Ks} channel. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5714-5719.	7.1	72
28	I_{Ks} Gainâ€•and Lossâ€ofâ€Function in Earlyâ€Onset Lone Atrial Fibrillation. Journal of Cardiovascular Electrophysiology, 2015, 26, 715-723.	1.7	28
29	Analysis of the Antitumor Activity of Clotrimazole on A375 Human Melanoma Cells. Anticancer Research, 2015, 35, 3781-6.	1.1	14
30	Fast detection of extrasynaptic GABA with a whole-cell sniffer. Frontiers in Cellular Neuroscience, 2014, 8, 133.	3.7	9
31	Gain-of-function mutations in potassium channel subunit KCNE2 associated with early-onset lone atrial fibrillation. Biomarkers in Medicine, 2014, 8, 557-570.	1.4	25
32	Specific Sorting and Post-Golgi Trafficking of Dendritic Potassium Channels in Living Neurons. Journal of Biological Chemistry, 2014, 289, 10566-10581.	3.4	36
33	Very early-onset lone atrial fibrillation patients have a high prevalence of rare variants in genes previously associated with atrial fibrillation. Heart Rhythm, 2014, 11, 246-251.	0.7	54
34	Investigations of the Na_vÎ²1b sodium channel subunit in human ventricle; functional characterization of the H162P Brugada syndrome mutant. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1204-H1212.	3.2	25
35	Novel Kv7.1-Phosphatidylinositol 4,5-Bisphosphate Interaction Sites Uncovered by Charge Neutralization Scanning. Journal of Biological Chemistry, 2014, 289, 22749-22758.	3.4	32
36	Cardiac Potassium Channel Subtypes: New Roles in Repolarization and Arrhythmia. Physiological Reviews, 2014, 94, 609-653.	28.8	181

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37	Brugada syndrome risk loci seem protective against atrial fibrillation. European Journal of Human Genetics, 2014, 22, 1357-1361.	2.8	13
38	Genetic variation in the two-pore domain potassium channel, TASK-1, may contribute to an atrial substrate for arrhythmogenesis. Journal of Molecular and Cellular Cardiology, 2014, 67, 69-76.	1.9	66
39	KCNE1 Modulates the Sensitivity of Kv7.1 to Polyunsaturated Fatty Acids. Biophysical Journal, 2014, 106, 143a.	0.5	0
40	From Pan-Reactive KV7 Channel Opener to Subtype Selective Opener/Inhibitor by Addition of a Methyl Group. PLoS ONE, 2014, 9, e100209.	2.5	11
41	Polyunsaturated Fatty acids as Kv7 Channel Modulators. Biophysical Journal, 2013, 104, 268a.	0.5	0
42	Genetic Modifier of the QTc Interval Associated With Early-Onset Atrial Fibrillation. Canadian Journal of Cardiology, 2013, 29, 1234-1240.	1.7	9
43	A novel KCND3 gain-of-function mutation associated with early-onset of persistent lone atrial fibrillation. Cardiovascular Research, 2013, 98, 488-495.	3.8	104
44	Genetic variation in KCNA5: impact on the atrial-specific potassium current IKur in patients with lone atrial fibrillation. European Heart Journal, 2013, 34, 1517-1525.	2.2	119
45	Contribution of K v 7 Channels to Basal Coronary Flow and Active Response to Ischemia. Hypertension, 2013, 62, 1090-1097.	2.7	74
46	Characterization and Mechanisms of Action of Novel Na _V 1.5 Channel Mutations Associated With Brugada Syndrome. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 177-184.	4.8	39
47	A Common Structural Component for ï¿½-Subunit Mediated Modulation of Slow Inactivation in Different KVChannels. Cellular Physiology and Biochemistry, 2013, 31, 968-980.	1.6	4
48	Trafficking of the <scp>I_{Ks}</scp>â€Complex in <scp>MDCK</scp> Cells: Site ofÂSubunit Assembly and Determinants ofÂPolarized Localization. Traffic, 2013, 14, 399-411.	2.7	13
49	In Vivo Phosphoproteomics Analysis Reveals the Cardiac Targets of Î²-Adrenergic Receptor Signaling. Science Signaling, 2013, 6, rs11.	3.6	164
50	Dysfunction of the Heteromeric KV7.3/KV7.5 Potassium Channel is Associated with Autism Spectrum Disorders. Frontiers in Genetics, 2013, 4, 54.	2.3	45
51	Gliadin Fragments and a Specific Gliadin 33-mer Peptide Close KATP Channels and Induce Insulin Secretion in INS-1E Cells and Rat Islets of Langerhans. PLoS ONE, 2013, 8, e66474.	2.5	25
52	High Prevalence of Long QT Syndromeâ€“Associated SCN5A Variants in Patients With Early-Onset Lone Atrial Fibrillation. Circulation: Cardiovascular Genetics, 2012, 5, 450-459.	5.1	129
53	Mutations in the potassium channel subunit KCNE1 are associated with early-onset familial atrial fibrillation. BMC Medical Genetics, 2012, 13, 24.	2.1	79
54	Multiple arrhythmic syndromes in a newborn, owing to a novel mutation in SCN5A. Canadian Journal of Physiology and Pharmacology, 2011, 89, 723-736.	1.4	6

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55	A Novel Nonsense Variant in Nav1.5 Cofactor MOG1 Eliminates Its Sodium Current Increasing Effect and May Increase the Risk of Arrhythmias. Canadian Journal of Cardiology, 2011, 27, 523.e17-523.e23.	1.7	45
56	Letter by Olesen et al Regarding Article, â€œMOG1: A New Susceptibility Gene for Brugada Syndromeâ€• Circulation: Cardiovascular Genetics, 2011, 4, e22; author reply e23.	5.1	3
57	Mutations in sodium channel Î²-subunit SCN3B are associated with early-onset lone atrial fibrillation. Cardiovascular Research, 2011, 89, 786-793.	3.8	112
58	Effect of the I_{to} activator NS5806 on cloned K_v4 channels depends on the accessory protein KChIP2. British Journal of Pharmacology, 2010, 160, 2028-2044.	5.4	41
59	Differential Effects of ICA-27243 on Cloned K_V7 Channels. Pharmacology, 2010, 86, 174-181.	2.2	24
60	Mutation in Nav1.5 Associated with Brugada Syndrome - a Mutational Hotspot?. Biophysical Journal, 2010, 98, 311a.	0.5	1
61	Structural basis for KV7.1â€“KCNEx interactions in the IKs channel complex. Heart Rhythm, 2010, 7, 708-713.	0.7	19
62	Overlapping LQT1 and LQT2 phenotype in a patient with long QT syndrome associated with loss-of-function variations in KCNQ1 and KCNH2. Canadian Journal of Physiology and Pharmacology, 2010, 88, 1181-1190.	1.4	12
63	The Acrylamide (S)-2 As a Positive and Negative Modulator of Kv7 Channels Expressed in Xenopus laevis Oocytes. PLoS ONE, 2009, 4, e8251.	2.5	22
64	Functional properties of human neuronal Kv11 channels. Pflugers Archiv European Journal of Physiology, 2009, 458, 689-700.	2.8	15
65	Phosphorylation of connexin43 on serine 306 regulates electrical coupling. Heart Rhythm, 2009, 6, 1632-1638.	0.7	54
66	KCNE3 Mutation V17M Identified in a Patient with Lone Atrial Fibrillation. Cellular Physiology and Biochemistry, 2008, 21, 047-054.	1.6	78
67	Requirement of subunit co-assembly and ankyrin-G for M-channel localization at the axon initial segment. Journal of Cell Science, 2007, 120, 953-963.	2.0	103
68	Mutations in the Kv1.5 channel gene KCNA5 in cardiac arrest patients. Biochemical and Biophysical Research Communications, 2007, 354, 776-782.	2.1	26
69	The novel C-terminal KCNQ1 mutation M520R alters protein trafficking. Biochemical and Biophysical Research Communications, 2007, 358, 304-310.	2.1	33
70	Characterizations of a loss-of-function mutation in the Kir3.4 channel subunit. Biochemical and Biophysical Research Communications, 2007, 364, 889-895.	2.1	35
71	KCNQ1 mutation Q147R is associated with atrial fibrillation and prolonged QT interval. Heart Rhythm, 2007, 4, 1532-1541.	0.7	103
72	Modulation of ERG Channels by XE991. Basic and Clinical Pharmacology and Toxicology, 2007, 100, 316-322.	2.5	32

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73	KCNQ channels are involved in the regulatory volume decrease response in primary neonatal rat cardiomyocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2007, 1773, 764-773.	4.1	21
74	The acrylamide (S)-1 differentially affects Kv7 (KCNQ) potassium channels. Neuropharmacology, 2006, 51, 1068-1077.	4.1	80
75	Long QT 1 Mutation KCNQ1A344VIncreases Local Anesthetic Sensitivity of the Slowly Activating Delayed Rectifier Potassium Current. Anesthesiology, 2006, 105, 511-520.	2.5	28
76	Calmodulin Is Essential for Cardiac I KS Channel Gating and Assembly. Circulation Research, 2006, 98, 1055-1063.	4.5	182
77	Local Anesthetic Interaction with Human Ether-a-go-goÂâ€“related Gene (HERG) Channels. Anesthesiology, 2005, 103, 102-112.	2.5	36
78	Functional assessment of compound mutations in the KCNQ1 and KCNH2 genes associated with long QT syndrome. Heart Rhythm, 2005, 2, 1238-1249.	0.7	30
79	KCNQ Channels are Sensors of Cell Volume. , 2004, , 389-390.		0
80	KCNQ1 Channels Sense Small Changes in Cell Volume. Journal of Physiology, 2003, 549, 419-427.	2.9	83
81	A recessive C-terminal Jervell and Lange-Nielsen mutation of the KCNQ1 channel impairs subunit assembly. EMBO Journal, 2000, 19, 332-340.	7.8	141