

# Gail A Robertson

## List of Publications by Year in descending order

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42  
papers

3,942  
citations

201674

27  
h-index

265206

42  
g-index

44  
all docs

44  
docs citations

44  
times ranked

3547  
citing authors

#	ARTICLE	IF	CITATIONS
1	International Union of Pharmacology. LIII. Nomenclature and Molecular Relationships of Voltage-Gated Potassium Channels. <i>Pharmacological Reviews</i> , 2005, 57, 473-508.	16.0	785
2	Properties of HERG Channels Stably Expressed in HEK 293 Cells Studied at Physiological Temperature. <i>Biophysical Journal</i> , 1998, 74, 230-241.	0.5	687
3	International Union of Pharmacology. XLI. Compendium of Voltage-Gated Ion Channels: Potassium Channels. <i>Pharmacological Reviews</i> , 2003, 55, 583-586.	16.0	358
4	Two Isoforms of the Mouse <i>Ether-a-go-go</i> -Related Gene Coassemble to Form Channels With Properties Similar to the Rapidly Activating Component of the Cardiac Delayed Rectifier K <sup>+</sup> Current. <i>Circulation Research</i> , 1997, 81, 870-878.	4.5	261
5	Novel Mechanism Associated With an Inherited Cardiac Arrhythmia. <i>Circulation</i> , 1999, 99, 2290-2294.	1.6	190
6	Cardiac IKr Channels Minimally Comprise hERG 1a and 1b Subunits. <i>Journal of Biological Chemistry</i> , 2004, 279, 44690-44694.	3.4	172
7	Regulation of Deactivation by an Amino Terminal Domain in Human <i>Ether-Å-go-go</i> -related Gene Potassium Channels. <i>Journal of General Physiology</i> , 1998, 112, 637-647.	1.9	156
8	Physiological Properties of hERG 1a/1b Heteromeric Currents and a hERG 1b-Specific Mutation Associated With Long-QT Syndrome. <i>Circulation Research</i> , 2008, 103, e81-95.	4.5	121
9	Transfer of rapid inactivation and sensitivity to the class III antiarrhythmic drug E-4031 from HERG to M-eag channels. <i>Journal of Physiology</i> , 1998, 511, 3-14.	2.9	105
10	Do Glia Have Heart? Expression and Functional Role for <i>Ether-A-Go-Go</i> Currents in Hippocampal Astrocytes. <i>Journal of Neuroscience</i> , 2000, 20, 3915-3925.	3.6	92
11	Dynamic Control of Deactivation Gating by a Soluble Amino-Terminal Domain in HERG K <sup>+</sup> Channels. <i>Journal of General Physiology</i> , 2000, 115, 749-758.	1.9	92
12	hERG 1b is critical for human cardiac repolarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18073-18077.	7.1	81
13	The Eag Family of K <sup>+</sup> Channels in <i>Drosophila</i> and Mammals. <i>Annals of the New York Academy of Sciences</i> , 1999, 868, 356-369.	3.8	79
14	Interaction with GM130 during HERG Ion Channel Trafficking. <i>Journal of Biological Chemistry</i> , 2002, 277, 47779-47785.	3.4	62
15	Heteromeric Assembly of Human <i>Ether-Å-go-go</i> -related Gene (hERG) 1a/1b Channels Occurs Cotranslationally via N-terminal Interactions. <i>Journal of Biological Chemistry</i> , 2007, 282, 9874-9882.	3.4	60
16	hERG Gating Microdomains Defined by S6 Mutagenesis and Molecular Modeling. <i>Journal of General Physiology</i> , 2008, 132, 507-520.	1.9	48
17	hERG subunit composition determines differential drug sensitivity. <i>British Journal of Pharmacology</i> , 2011, 164, 419-432.	5.4	46
18	Functional Analysis of a Mouse Brain Elk-Type K <sup>+</sup> Channel. <i>Journal of Neuroscience</i> , 1999, 19, 2906-2918.	3.6	43

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19	Specific serine proteases selectively damage KCNH2 (hERG1) potassium channels and IKr. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1278-H1288.	3.2	42
20	Endoplasmic Reticulum Retention and Rescue by Heteromeric Assembly Regulate Human ERG 1a/1b Surface Channel Composition. Journal of Biological Chemistry, 2008, 283, 3702-3707.	3.4	42
21	The Enigmatic Cytoplasmic Regions of KCNH Channels. Journal of Molecular Biology, 2015, 427, 67-76.	4.2	41
22	Administration of Non-Torsadogenic human Ether-Å-go-go-Related Gene Inhibitors Is Associated with Better Survival for High hERG-Expressing Glioblastoma Patients. Clinical Cancer Research, 2017, 23, 73-80.	7.0	40
23	Fluorescence-Tracking of Activation Gating in Human ERG Channels Reveals Rapid S4 Movement and Slow Pore Opening. PLoS ONE, 2010, 5, e10876.	2.5	34
24	hERG1a N-terminal eag domain-containing polypeptides regulate homomeric hERG1b and heteromeric hERG1a/hERG1b channels: A possible mechanism for long QT syndrome. Journal of General Physiology, 2011, 138, 581-592.	1.9	33
25	Cotranslational association of mRNA encoding subunits of heteromeric ion channels. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4859-4864.	7.1	33
26	Mapping the receptor site for ergtoxin, a specific blocker of ERG channels. FEBS Letters, 2002, 510, 45-49.	2.8	31
27	Repolarization abnormalities and afterdepolarizations in a canine model of sudden cardiac death. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R1463-R1472.	1.8	28
28	A microtranslatome coordinately regulates sodium and potassium currents in the human heart. ELife, 2019, 8, .	6.0	24
29	The intrinsically liganded cyclic nucleotide-binding homology domain promotes KCNH channel activation. Journal of General Physiology, 2017, 149, 249-260.	1.9	23
30	Enhancement of hERG channel activity by scFv antibody fragments targeted to the PAS domain. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9916-9921.	7.1	18
31	Dominant negative consequences of a hERG 1b-specific mutation associated with intrauterine fetal death. Progress in Biophysics and Molecular Biology, 2016, 120, 67-76.	2.9	18
32	LQT2. Circulation Research, 2000, 86, 492-493.	4.5	14
33	hERG Function in Light of Structure. Biophysical Journal, 2020, 118, 790-797.	0.5	14
34	Long QT Syndrome <i>KCNH2</i> Variant Induces hERG1a/1b Subunit Imbalance in Patient-Specific Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e009343.	4.8	13
35	Endocytic control of ion channel density as a target for cardiovascular disease. Journal of Clinical Investigation, 2009, 119, 2531-2534.	8.2	13
36	A <i>Drosophila</i> behavioral mutant, down and out (dao), is defective in an essential regulator of Erg potassium channels. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5617-5621.	7.1	12

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37	Localization and functional consequences of a direct interaction between TRIOBP-1 and hERG/KCNH2 proteins in the heart. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	9
38	Conformation-sensitive antibody reveals an altered cytosolic PAS/CNBh assembly during hERG channel gating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	8
39	The Interaction between the <i>Drosophila</i> EAG Potassium Channel and the Protein Kinase CaMKII Involves an Extensive Interface at the Active Site of the Kinase. <i>Journal of Molecular Biology</i> , 2018, 430, 5029-5049.	4.2	6
40	A stable cell line inducibly expressing hERG1a/1b heteromeric channels. <i>Journal of Pharmacological and Toxicological Methods</i> , 2021, 110, 107081.	0.7	5
41	It's not funny: How changes in If limit maximum heart rate with aging. <i>Journal of General Physiology</i> , 2017, 149, 177-179.	1.9	2
42	A tribute to Barry Ganetzky: a trainee's perspective from 1986-1992. <i>Journal of Neurogenetics</i> , 2016, 30, 159-162.	1.4	1