

Junko Kurokawa

List of Publications by Year in descending order

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84
papers

3,968
citations

147801

31
h-index

123424

61
g-index

95
all docs

95
docs citations

95
times ranked

3998
citing authors

#	ARTICLE	IF	CITATIONS
1	Requirement of a Macromolecular Signaling Complex for beta Adrenergic Receptor Modulation of the KCNQ1-KCNE1 Potassium Channel. <i>Science</i> , 2002, 295, 496-499.	12.6	668
2	Nontranscriptional Regulation of Cardiac Repolarization Currents by Testosterone. <i>Circulation</i> , 2005, 112, 1701-1710.	1.6	220
3	Image-based evaluation of contraction-relaxation kinetics of human-induced pluripotent stem cell-derived cardiomyocytes: Correlation and complementarity with extracellular electrophysiology. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 77, 178-191.	1.9	174
4	Disease characterization using LQTS-specific induced pluripotent stem cells. <i>Cardiovascular Research</i> , 2012, 95, 419-429.	3.8	171
5	Progesterone Regulates Cardiac Repolarization Through a Nongenomic Pathway. <i>Circulation</i> , 2007, 116, 2913-2922.	1.6	163
6	Fibroblast Growth Factors and Vascular Endothelial Growth Factor Promote Cardiac Reprogramming under Defined Conditions. <i>Stem Cell Reports</i> , 2015, 5, 1128-1142.	4.8	143
7	Direct In Vivo Reprogramming with Sendai Virus Vectors Improves Cardiac Function after Myocardial Infarction. <i>Cell Stem Cell</i> , 2018, 22, 91-103.e5.	11.1	138
8	Acute effects of oestrogen on the guinea pig and human K_{r} channels and drug-induced prolongation of cardiac repolarization. <i>Journal of Physiology</i> , 2008, 586, 2961-2973.	2.9	127
9	Requirement of subunit expression for cAMP-mediated regulation of a heart potassium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2122-2127.	7.1	120
10	Regulatory actions of the A-kinase anchoring protein Yotiao on a heart potassium channel downstream of PKA phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16374-16378.	7.1	114
11	Efficient Large-Scale 2D Culture System for Human Induced Pluripotent Stem Cells and Differentiated Cardiomyocytes. <i>Stem Cell Reports</i> , 2017, 9, 1406-1414.	4.8	96
12	Ginsenoside Re, a Main Phytosterol of Panax ginseng, Activates Cardiac Potassium Channels via a Nongenomic Pathway of Sex Hormones. <i>Molecular Pharmacology</i> , 2006, 70, 1916-1924.	2.3	91
13	Role of transient receptor potential vanilloid 2 in LPS-induced cytokine production in macrophages. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 284-289.	2.1	87
14	Screening system for drug-induced arrhythmogenic risk combining a patch clamp and heart simulator. <i>Science Advances</i> , 2015, 1, e1400142.	10.3	87
15	A computational model of induced pluripotent stem cell derived cardiomyocytes incorporating experimental variability from multiple data sources. <i>Journal of Physiology</i> , 2019, 597, 4533-4564.	2.9	87
16	K^{+} Channel Structure-Activity Relationships and Mechanisms of Drug-Induced QT Prolongation. <i>Annual Review of Pharmacology and Toxicology</i> , 2003, 43, 441-461.	9.4	81
17	Phosphorylation of the A-kinase-anchoring Protein Yotiao Contributes to Protein Kinase A Regulation of a Heart Potassium Channel. <i>Journal of Biological Chemistry</i> , 2005, 280, 31347-31352.	3.4	78
18	Role of Nitric Oxide in Ca ²⁺ Sensitivity of the Slowly Activating Delayed Rectifier K ⁺ Current in Cardiac Myocytes. <i>Circulation Research</i> , 2005, 96, 64-72.	4.5	73

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19	Novel cystine transporter in renal proximal tubule identified as a missing partner of cystinuria-related plasma membrane protein rBAT/SLC3A1. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 775-780.	7.1	72
20	Regulation of cardiac ion channels via non-genomic action of sex steroid hormones: Implication for the gender difference in cardiac arrhythmias. , 2007, 115, 106-115.		62
21	Redox- and Calmodulin-dependent S-Nitrosylation of the KCNQ1 Channel. Journal of Biological Chemistry, 2009, 284, 6014-6020.	3.4	62
22	Acute Effects of Sex Steroid Hormones on Susceptibility to Cardiac Arrhythmias: A Simulation Study. PLoS Computational Biology, 2010, 6, e1000658.	3.2	58
23	Sex hormonal regulation of cardiac ion channels in drug-induced QT syndromes. , 2016, 168, 23-28.		58
24	High-fat diet increases vulnerability to atrial arrhythmia by conduction disturbance via miR-27b. Journal of Molecular and Cellular Cardiology, 2016, 90, 38-46.	1.9	57
25	Overexpression of KCNJ2 in induced pluripotent stem cell-derived cardiomyocytes for the assessment of QT-prolonging drugs. Journal of Pharmacological Sciences, 2017, 134, 75-85.	2.5	45
26	Tea+Sensitive Kcnq1 Constructs Reveal Pore-Independent Access to Kcne1 in Assembled IKs Channels. Journal of General Physiology, 2001, 117, 43-52.	1.9	42
27	Embryonic type Na ⁺ channel β -subunit, SCN3B masks the disease phenotype of Brugada syndrome. Scientific Reports, 2016, 6, 34198.	3.3	41
28	A multiscale computational modelling approach predicts mechanisms of female sex risk in the setting of arousal-induced arrhythmias. Journal of Physiology, 2017, 595, 4695-4723.	2.9	41
29	Potassium channel remodeling in cardiac hypertrophy. Journal of Molecular and Cellular Cardiology, 2006, 41, 753-761.	1.9	40
30	Molecular Basis of the Delayed Rectifier Current IKs in Heart. Journal of Molecular and Cellular Cardiology, 2001, 33, 873-882.	1.9	39
31	Leucine/Isoleucine Zipper Coordination of Ion Channel Macromolecular Signaling Complexes in the Heart Roles in Inherited Arrhythmias. Trends in Cardiovascular Medicine, 2003, 13, 52-56.	4.9	37
32	Overexpression of β 2-Adrenergic Receptors cAMP-dependent Protein Kinase Phosphorylates and Modulates Slow Delayed Rectifier Potassium Channels Expressed in Murine Heart. Journal of Biological Chemistry, 2004, 279, 40778-40787.	3.4	37
33	1,5-Benzothiazepine Binding Domain Is Located on the Extracellular Side of the Cardiac L-Type Ca ²⁺ Channel. Molecular Pharmacology, 1997, 51, 262-268.	2.3	36
34	Non-genomic Action of Sex Steroid Hormones and Cardiac Repolarization. Biological and Pharmaceutical Bulletin, 2013, 36, 8-12.	1.4	33
35	Enhancement of Spontaneous Activity by HCN4 Overexpression in Mouse Embryonic Stem Cell-Derived Cardiomyocytes - A Possible Biological Pacemaker. PLoS ONE, 2015, 10, e0138193.	2.5	33
36	Stimulation of Protein Kinase C Inhibits Bursting in Disease-Linked Mutant Human Cardiac Sodium Channels. Circulation, 2003, 107, 3216-3222.	1.6	29

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37	Non-Genomic Regulation of Cardiac Ion Channels by Sex Hormones. <i>Cardiovascular & Hematological Disorders Drug Targets</i> , 2008, 8, 245-251.	0.7	29
38	Effects of a novel, potent benzothiazepine Ca ²⁺ channel antagonist, DTZ323, on guinea-pig ventricular myocytes. <i>European Journal of Pharmacology</i> , 1997, 325, 229-236.	3.5	27
39	Points to consider for a validation study of iPS cell-derived cardiomyocytes using a multi-electrode array system. <i>Journal of Pharmacological and Toxicological Methods</i> , 2016, 81, 196-200.	0.7	27
40	KCNE variants reveal a critical role of the beta subunit carboxyl terminus in PKA-dependent regulation of the I _{Ks} potassium channel. <i>Channels</i> , 2009, 3, 16-24.	2.8	25
41	New Aspects for the Treatment of Cardiac Diseases Based on the Diversity of Functional Controls on Cardiac Muscles: Acute Effects of Female Hormones on Cardiac Ion Channels and Cardiac Repolarization. <i>Journal of Pharmacological Sciences</i> , 2009, 109, 334-340.	2.5	25
42	Effects of an hERG Activator, ICA-105574, on Electrophysiological Properties of Canine Hearts. <i>Journal of Pharmacological Sciences</i> , 2013, 121, 1-8.	2.5	24
43	Arrhythmic hazard map for a 3D whole-ventricle model under multiple ion channel block. <i>British Journal of Pharmacology</i> , 2018, 175, 3435-3452.	5.4	21
44	A computational model of induced pluripotent stem-cell derived cardiomyocytes for high throughput risk stratification of KCNQ1 genetic variants. <i>PLoS Computational Biology</i> , 2020, 16, e1008109.	3.2	20
45	A Receptor-Independent Effect of Estrone Sulfate on the hERG Channel. <i>Journal of Pharmacological Sciences</i> , 2009, 109, 152-156.	2.5	18
46	A distribution analysis of action potential parameters obtained from patch-clamped human stem cell-derived cardiomyocytes. <i>Journal of Pharmacological Sciences</i> , 2016, 131, 141-145.	2.5	17
47	Neurohormonal Regulation of Cardiac Ion Channels in Chronic Heart Failure. <i>Journal of Cardiovascular Pharmacology</i> , 2009, 54, 98-105.	1.9	16
48	Oxidative Stress Induced Ventricular Arrhythmia and Impairment of Cardiac Function in <i>and</i> Deleted Mice. <i>International Heart Journal</i> , 2016, 57, 341-349.	1.0	16
49	Electrophysiological consequences of human I _{Ks} channel expression in adult murine heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 284, H168-H175.	3.2	14
50	Clinical, Genetic, and Electrophysiologic Characteristics of a New Pas-Domain HERG Mutation (M124R) Causing Long QT Syndrome. <i>Annals of Noninvasive Electrocardiology</i> , 2005, 10, 334-341.	1.1	14
51	Involvement of sex hormonal regulation of K ⁺ channels in electrophysiological and contractile functions of muscle tissues. <i>Journal of Pharmacological Sciences</i> , 2019, 139, 259-265.	2.5	14
52	A deep learning algorithm to translate and classify cardiac electrophysiology. <i>ELife</i> , 2021, 10, .	6.0	14
53	Sex and Gender Aspects in Antiarrhythmic Therapy. <i>Handbook of Experimental Pharmacology</i> , 2013, , 237-263.	1.8	14
54	Aromatase knockout mice reveal an impact of estrogen on drug-induced alternation of murine electrocardiography parameters. <i>Journal of Toxicological Sciences</i> , 2015, 40, 339-348.	1.5	13

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55	Continued exposure of anti-cancer drugs to human iPS cell-derived cardiomyocytes can unmask their cardiotoxic effects. <i>Journal of Pharmacological Sciences</i> , 2019, 140, 345-349.	2.5	13
56	Compartmentalized Regulations of Ion Channels in the Heart. <i>Biological and Pharmaceutical Bulletin</i> , 2007, 30, 2231-2237.	1.4	10
57	Systematic expression analysis of genes related to generation of action potentials in human iPS cell-derived cardiomyocytes. <i>Journal of Pharmacological Sciences</i> , 2019, 140, 325-330.	2.5	10
58	Diltiazem derivatives modulate the dihydropyridine-binding to intact rat ventricular myocytes. <i>European Journal of Pharmacology</i> , 1997, 319, 101-107.	3.5	9
59	T75M-KCNJ2 mutation causing Andersenâ€™Tawil syndrome enhances inward rectification by changing Mg ²⁺ sensitivity. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 43, 187-196.	1.9	9
60	A Genetically Encoded Bioluminescent Indicator for the Sodium Channel Activity in Living Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 4188-4189.	13.7	6
61	Circulating KCNH2 Current-Activating Factor in Patients with Heart Failure and Ventricular Tachyarrhythmia. <i>PLoS ONE</i> , 2011, 6, e19897.	2.5	5
62	A Combined Approach Using Patch-Clamp Study and Computer Simulation Study for Understanding Long QT Syndrome and TdP in Women. <i>Current Cardiology Reviews</i> , 2008, 4, 244-250.	1.5	4
63	Opening of Intermediate Conductance Ca ²⁺ -Activated K ⁺ Channels in C2C12 Skeletal Muscle Cells Increases the Myotube Diameter via the Akt/Mammalian Target of Rapamycin Pathway. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 376, 454-462.	2.5	4
64	Region- and Condition-Dependence of the Membrane and Ca ²⁺ Clocks in the Sinus Node. <i>Circulation Journal</i> , 2012, 76, 293-294.	1.6	2
65	Effects of diltiazem derivatives on the specific binding of (+)-[3H]PN200-110 to isolated rat ventricular myocytes. <i>The Japanese Journal of Pharmacology</i> , 1996, 71, 66.	1.2	1
66	The Effect of a Synthetic Estrogen, Ethinylestradiol, on the hERG Block by E-4031. <i>Biomolecules</i> , 2021, 11, 1385.	4.0	1
67	Is enhanced inward rectification of KCNJ2 in Andersenâ€™Tawil syndrome is arrhythmogenic phenotype?. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 1063-1064.	1.9	0
68	Regulation of the IKs Channel by S-nitrosylation at Carboxyl-Terminus of hKCNQ1. <i>Biophysical Journal</i> , 2010, 98, 136a.	0.5	0
69	KCNH2 Current Activating Factor in Serum of Patients With Heart Failure. <i>Journal of Cardiac Failure</i> , 2010, 16, S160-S161.	1.7	0
70	Involvement of PDE2 in a Localized Regulation of the L-Type Ca ²⁺ Channels by Progesterone. <i>Biophysical Journal</i> , 2013, 104, 281a-282a.	0.5	0
71	Contractile behaviors of human-induced pluripotent stem cell-derived cardiomyocyte monolayers evaluated with an image-based analysis using motion vector prediction technique: A comparison with extracellular electrophysiology. <i>Journal of Pharmacological and Toxicological Methods</i> , 2013, 68, e24.	0.7	0
72	Human ES- and Induced Pluripotent Stem-Derived Cardiomyocytes. A Comparative Electrophysiological Study. <i>Biophysical Journal</i> , 2013, 104, 298a.	0.5	0

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73	A Novel Approach for Evaluation of Drug-Induced QT Prolongation using Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Biophysical Journal</i> , 2014, 106, 720a-721a.	0.5	0
74	An in Silico Study of Female Susceptibility to Arousal-Induced Arrhythmias. <i>Biophysical Journal</i> , 2016, 110, 585a.	0.5	0
75	Cardiac safety assessment of drugs using three-dimensional heart simulator. <i>Journal of Pharmacological and Toxicological Methods</i> , 2016, 81, 351.	0.7	0
76	KCNQ1/KCNE1 Macromolecular Signaling Complex: Channel Microdomains and Human Disease. , 2004, , 143-149.		0
77	ãf'ãf~iPSç"èfžç"±æŷã;fçç"èfžã®é»æ°—ç"Ÿç†ã† â€•ãf'ãfãfã,ãf ©ãf³ãf—ã®Ÿé"â€•. <i>Japanese Journal of Electrocardiology</i> , 2011, 42, 1-10.		0
78	Non-Genomic Regulation of K ⁺ and Ca ²⁺ Channels by Sex Hormones. <i>Journal of Arrhythmia</i> , 2011, 27, SS2_1.	1.2	0
79	Remodeling of Potassium Channels in Cardiac Hypertrophy. , 2013, , 31-45.		0
80	A risk assessment of a common drug using xenograft model. <i>Annals of Translational Medicine</i> , 2017, 5, 88-88.	1.7	0
81	Lipopolysaccharide impairs myogenic differentiation of C2C12 myoblasts. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO3-9-13.	0.0	0
82	Diet-induced mislocalization of the ATP-binding cassette transporters is involved in the development of cholesterol crystal in bile from gallstone disease model mouse. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO3-5-14.	0.0	0
83	A multidisciplinary approach for pharmacological assessment using human iPS-derived cardiomyocytes. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO3-3-14.	0.0	0
84	Membrane proteomics for sex differences in renal proximal tubules using Sry gene-modified mice. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2020, 93, 3-P-307.	0.0	0