Yasutaka Kurata

List of Publications by Year
in descending order

49	816	567281 15	526287 27
papers	citations	h-index	g-index

50	50	50	933
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamical description of sinoatrial node pacemaking: improved mathematical model for primary pacemaker cell. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2074-H2101.	3.2	166
2	Dynamical Mechanisms of Pacemaker Generation in IK1-Downregulated Human Ventricular Myocytes: Insights from Bifurcation Analyses of a Mathematical Model. Biophysical Journal, 2005, 89, 2865-2887.	0.5	63
3	Leptin Receptor Signaling in the Hypothalamus Regulates Hepatic Autonomic Nerve Activity via Phosphatidylinositol 3-Kinase and AMP-Activated Protein Kinase. Journal of Neuroscience, 2015, 35, 474-484.	3.6	54
4	Regional Difference in Dynamical Property of Sinoatrial Node Pacemaking: Role of Na+ Channel Current. Biophysical Journal, 2008, 95, 951-977.	0.5	47
5	Roles of L-type Ca²⁺ and delayed-rectifier K⁺ currents in sinoatrial node pacemaking: insights from stability and bifurcation analyses of a mathematical model. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H2804-H2819.	3.2	45
6	Hypothalamic Nesfatin-1 Stimulates Sympathetic Nerve Activity via Hypothalamic ERK Signaling. Diabetes, 2015, 64, 3725-3736.	0.6	35
7	Roles of sarcoplasmic reticulum Ca²⁺ cycling and Na⁺/Ca²⁺ exchanger in sinoatrial node pacemaking: Insights from bifurcation analysis of mathematical models. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H2285-H2300.	3.2	31
8	Dynamical mechanisms of phase-2 early afterdepolarizations in human ventricular myocytes: insights from bifurcation analyses of two mathematical models. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H106-H127.	3.2	31
9	Mouse anaphylactic shock is caused by reduced cardiac output, but not by systemic vasodilatation or pulmonary vasoconstriction, via PAF and histamine. Life Sciences, 2014, 116, 98-105.	4.3	24
10	Effects of pacemaker currents on creation and modulation of human ventricular pacemaker: theoretical study with application to biological pacemaker engineering. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H701-H718.	3.2	23
11	Roles of hyperpolarization-activated current I_f in sinoatrial node pacemaking: insights from bifurcation analysis of mathematical models. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1748-H1760.	3.2	20
12	Multiple Dynamical Mechanisms of Phase-2 Early Afterdepolarizations in a Human Ventricular Myocyte Model: Involvement of Spontaneous SR Ca2+Release. Frontiers in Physiology, 2019, 10, 1545.	2.8	20
13	E3 ligase CHIP and Hsc70 regulate Kv1.5 protein expression and function in mammalian cells. Journal of Molecular and Cellular Cardiology, 2015, 86, 138-146.	1.9	19
14	l-Ornithine intake affects sympathetic nerve outflows and reduces body weight and food intake in rats. Brain Research Bulletin, 2015, 111, 48-52.	3.0	17
15	Hysteretic Dynamics of Multi-Stable Early Afterdepolarisations with Repolarisation Reserve Attenuation: A Potential Dynamical Mechanism for Cardiac Arrhythmias. Scientific Reports, 2017, 7, 10771.	3.3	17
16	Inhibitory effects of class I antiarrhythmic agents on Na+ and Ca2+ currents of human iPS cell-derived cardiomyocytes. Regenerative Therapy, 2019, 10, 104-111.	3.0	17
17	Electrophysiological properties of iPS cell-derived cardiomyocytes from a patient with long QT syndrome type 1 harboring the novel mutation M437V of KCNQ1. Regenerative Therapy, 2016, 4, 9-17.	3.0	13
18	Restoration of mutant hERG stability by inhibition of HDAC6. Journal of Molecular and Cellular Cardiology, 2018, 115, 158-169.	1.9	13

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19	Protective Effects of Topiroxostat on an Ischemia-Reperfusion Model of Rat Hearts. Circulation Journal, 2018, 82, 1101-1111.	1.6	13
20	Esm1 and Stc1 as Angiogenic Factors Responsible for Protective Actions of Adipose-Derived Stem Cell Sheets on Chronic Heart Failure After Rat Myocardial Infarction. Circulation Journal, 2021, 85, 657-666.	1.6	13
21	Effect of hyperpolarization-activated current If on robustness of sinoatrial node pacemaking: theoretical study on influence of intracellular Na+ concentration. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 304, H1337-H1351.	3.2	11
22	Specific decreasing of Na+ channel expression on the lateral membrane of cardiomyocytes causes fatal arrhythmias in Brugada syndrome. Scientific Reports, 2020, 10, 19964.	3.3	11
23	Impact of functional studies on exome sequence variant interpretation in early-onset cardiac conduction system diseases. Cardiovascular Research, 2020, 116, 2116-2130.	3.8	11
24	Effects of Anesthetics on the Renal Sympathetic Response to Anaphylactic Hypotension in Rats. PLoS ONE, 2014, 9, e113945.	2.5	9
25	Angiotensin II and vasopressin are involved in the defense system against anaphylactic hypotension in anesthetized rats. European Journal of Pharmacology, 2014, 731, 38-43.	3.5	9
26	Tbx18-positive cells differentiated from murine ES cells serve as proepicardial progenitors to give rise to vascular smooth muscle cells and fibroblasts . Biomedical Research, 2017, 38, 229-238.	0.9	8
27	The Role of Lumbar Sympathetic Nerves in Regulation of Blood Flow to Skeletal Muscle during Anaphylactic Hypotension in Anesthetized Rats. PLoS ONE, 2016, 11, e0150882.	2.5	8
28	Major Contribution of Vasospasm-Induced Coronary Blood Flow Reduction to Anaphylactic Ventricular Dysfunction Assessed in Isolated Blood-Perfused Rat Heart. Cardiology Journal, 2014, 21, 11-7.	1.2	8
29	Renal response to anaphylaxis in anesthetized rats and isolated perfused rat kidneys: roles of nitric oxide. Journal of Physiological Sciences, 2018, 68, 689-697.	2.1	7
30	The responses of pulmonary and systemic circulation and airway to anaphylactic mediators in anesthetized BALB/c mice. Life Sciences, 2016, 147, 77-84.	4.3	6
31	Anaphylactic hypotension causes renal and adrenal sympathoexcitaion and induces câ€fos in the hypothalamus and medulla oblongata. Experimental Physiology, 2018, 103, 790-806.	2.0	5
32	Gastric vascular and motor responses to anaphylactic hypotension in anesthetized rats, in comparison to those with hemorrhagic or vasodilator-induced hypotension. Journal of Physiological Sciences, 2018, 68, 253-260.	2.1	5
33	Î²2-Adrenoceptor Blockade Deteriorates Systemic Anaphylaxis by Enhancing Hyperpermeability in Anesthetized Mice. Allergy, Asthma and Immunology Research, 2018, 10, 52.	2.9	5
34	Anaphylaxis stimulates afferent vagal nerve activity and efferent sympathetic nerve activity in the stomach of anesthetized rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R337-R345.	1.8	4
35	Pretreatment with cilnidipine attenuates hypoxia/reoxygenation injury in HL-1 cardiomyocytes through enhanced NO production and action potential shortening. Hypertension Research, 2020, 43, 380-388.	2.7	4
36	Novel inhibitory effects of dotinurad, a selective urate reabsorption inhibitor, on urate crystal-induced activation of NLRP3 inflammasomes in macrophages. Vascular Failure, 2020, 3, 59-67.	0.2	4

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37	Stabilization of Kv1.5 channel protein by the inotropic agent olprinone. European Journal of Pharmacology, 2015, 765, 488-494.	3.5	3
38	Characterization of the novel mutant A78Tâ€HERG from a long QT syndrome type 2 patient: Instability of the mutant protein and stabilization by heat shock factor 1. Journal of Arrhythmia, 2016, 32, 433-440.	1.2	3
39	Bifurcations and Proarrhythmic Behaviors in Cardiac Electrical Excitations. Biomolecules, 2022, 12, 459.	4.0	3
40	Kv1.5 channel mediates monosodium urate-induced activation of NLRP3 inflammasome in macrophages and arrhythmogenic effects of urate on cardiomyocytes. Molecular Biology Reports, 2022, 49, 5939-5952.	2.3	3
41	Î±1-Adrenergic receptor mediates adipose-derived stem cell sheet-induced protection against chronic heart failure after myocardial infarction in rats. Hypertension Research, 2022, 45, 283-291.	2.7	2
42	Molecular mechanisms underlying the pilsicainideâ€induced stabilization of hERG proteins in transfected mammalian cells. Journal of Arrhythmia, 2017, 33, 226-233.	1.2	1
43	Tonic contraction develops in the colon during anaphylactic hypotension in anesthetized rats. Journal of Physiological Sciences, 2019, 69, 953-960.	2.1	1
44	Integrative and theoretical research on the architecture of a biological system and its disorder. Journal of Physiological Sciences, 2019, 69, 433-451.	2.1	1
45	Authorsâ€™ response. Cardiology Journal, 2014, 21, 104-104.	1.2	1
46	Angiopoietin-2 is released during anaphylactic hypotension in anesthetized and unanesthetized rats. PLoS ONE, 2020, 15, e0242026.	2.5	1
47	The effect of systemic anaphylaxis on mesenteric lymph flow in anesthetized rats. FASEB Journal, 2012, 26, 862.11.	0.5	0
48	Effect of exercise training on ischemiaâ€reperfusion injury of steatotic livers from OLETF ratsÎ¹. FASEB Journal, 2013, 27, 682.5.	0.5	0
49	Dynamical mechanism of multi-stable early afterdepolarizations in a ventricular myocyte elicited by administration of class III antiarrhythmic agents: in silico study. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO1-2-80.	0.0	0