

# Jong-Kook Lee

## List of Publications by Year in descending order

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83  
papers

2,802  
citations

159585

30  
h-index

182427

51  
g-index

85  
all docs

85  
docs citations

85  
times ranked

4309  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human-Induced Pluripotent Stem Cell-Derived Cardiomyocyte Model for TNNT2 <sup>160E</sup> -Induced Cardiomyopathy. <i>Circulation Genomic and Precision Medicine</i> , 2022, 15, .	3.6	5
2	Scaffold-Mediated Developmental Effects on Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Are Preserved After External Support Removal. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 591754.	3.7	3
3	Decreased YAP activity reduces proliferative ability in human induced pluripotent stem cell of duchenne muscular dystrophy derived cardiomyocytes. <i>Scientific Reports</i> , 2021, 11, 10351.	3.3	7
4	Homogeneous 2D and 3D alignment of cardiomyocyte in dilated cardiomyopathy revealed by intravital heart imaging. <i>Scientific Reports</i> , 2021, 11, 14698.	3.3	3
5	High-Throughput Drug Screening System Based on Human Induced Pluripotent Stem Cell-Derived Atrial Myocytes – A Novel Platform to Detect Cardiac Toxicity for Atrial Arrhythmias. <i>Frontiers in Pharmacology</i> , 2021, 12, 680618.	3.5	10
6	Protocol for Morphological and Functional Phenotype Analysis of hiPS-Derived. <i>Methods in Molecular Biology</i> , 2021, 2320, 91-100.	0.9	0
7	Aberrant accumulation of TMEM43 accompanied by perturbed transmural gene expression in arrhythmogenic cardiomyopathy. <i>FASEB Journal</i> , 2021, 35, e21994.	0.5	7
8	Geometrical Patterning and Constituent Cell Heterogeneity Facilitate Electrical Conduction Disturbances in a Human Induced Pluripotent Stem Cell-Based Platform: An In vitro Disease Model of Atrial Arrhythmias. <i>Frontiers in Physiology</i> , 2019, 10, 818.	2.8	15
9	Activation of DNA Damage Response and Cellular Senescence in Cardiac Fibroblasts Limit Cardiac Fibrosis After Myocardial Infarction. <i>International Heart Journal</i> , 2019, 60, 944-957.	1.0	21
10	In vitro platform of allogeneic stem cell-derived cardiomyocyte transplantation for cardiac conduction defects. <i>Europace</i> , 2018, 20, 1553-1560.	1.7	2
11	Pivotal Role of Non-cardiomyocytes in Electromechanical and Therapeutic Potential of Induced Pluripotent Stem Cell-Derived Engineered Cardiac Tissue. <i>Tissue Engineering - Part A</i> , 2018, 24, 287-300.	3.1	63
12	Generation of Fabry cardiomyopathy model for drug screening using induced pluripotent stem cell-derived cardiomyocytes from a female Fabry patient. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 121, 256-265.	1.9	21
13	Phenotypic Screening Using Patient-Derived Induced Pluripotent Stem Cells Identified Pyr3 as a Candidate Compound for the Treatment of Infantile Hypertrophic Cardiomyopathy. <i>International Heart Journal</i> , 2018, 59, 1096-1105.	1.0	13
14	DNA single-strand break-induced DNA damage response causes heart failure. <i>Nature Communications</i> , 2017, 8, 15104.	12.8	85
15	An EP4 Receptor Agonist Inhibits Cardiac Fibrosis Through Activation of PKA Signaling in Hypertrophied Heart. <i>International Heart Journal</i> , 2017, 58, 107-114.	1.0	32
16	Quantification of sympathetic hyperinnervation and denervation after myocardial infarction by three-dimensional assessment of the cardiac sympathetic network in cleared transparent murine hearts. <i>PLoS ONE</i> , 2017, 12, e0182072.	2.5	40
17	Generation of Induced Pluripotent Stem Cells From Patients With Duchenne Muscular Dystrophy and Their Induction to Cardiomyocytes. <i>International Heart Journal</i> , 2016, 57, 112-117.	1.0	26
18	A New In Vitro Co-culture Model Using Magnetic Force-Based Nanotechnology. <i>Journal of Cellular Physiology</i> , 2016, 231, 2249-2256.	4.1	1

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19	The topogenic function of S4 promotes membrane insertion of the voltage-sensor domain in the KvAP channel. <i>Biochemical Journal</i> , 2016, 473, 4361-4372.	3.7	4
20	Non-invasive Video Image-based Analysis Method Coupled to Field Potential Recording for Evaluation of the Drug-induced Effect in Cardiac Tissue. <i>Electrochemistry</i> , 2016, 84, 283-289.	1.4	1
21	Activation of endothelial $\beta$ -catenin signaling induces heart failure. <i>Scientific Reports</i> , 2016, 6, 25009.	3.3	27
22	Regeneration of the Cardiac Conduction System by Adipose Tissue-Derived Stem Cells. <i>Circulation Journal</i> , 2015, 79, 2703-2712.	1.6	23
23	Monocyte-derived extracellular NAD <sup>+</sup> biosynthesis of NAD <sup>+</sup> protects the heart against pressure overload. <i>Scientific Reports</i> , 2015, 5, 15857.	3.3	25
24	Angiotensin II receptor blockade promotes repair of skeletal muscle through down-regulation of aging-promoting C1q expression. <i>Scientific Reports</i> , 2015, 5, 14453.	3.3	42
25	Wnt/ $\beta$ -Catenin Signaling Contributes to Skeletal Myopathy in Heart Failure via Direct Interaction With Forkhead Box O. <i>Circulation: Heart Failure</i> , 2015, 8, 799-808.	3.9	34
26	Optical microscopy imaging for the diagnosis of the pharmacological reaction of mouse embryonic stem cell-derived cardiomyocytes (mESC-CMs). <i>Analyst</i> , 2015, 140, 6500-6507.	3.5	2
27	Complement C1q-induced activation of $\beta$ -catenin signalling causes hypertensive arterial remodelling. <i>Nature Communications</i> , 2015, 6, 6241.	12.8	51
28	Pirfenidone exhibits cardioprotective effects by regulating myocardial fibrosis and vascular permeability in pressure-overloaded hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H512-H522.	3.2	81
29	Single cell trapping and cell-cell interaction monitoring of cardiomyocytes in a designed microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 43-50.	7.8	27
30	N-Glycans: Phenotypic Homology and Structural Differences between Myocardial Cells and Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>PLoS ONE</i> , 2014, 9, e111064.	2.5	14
31	Rapid electrical stimulation causes alterations in cardiac intercellular junction proteins of cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H1324-H1333.	3.2	17
32	Calpain-dependent Cleavage of N-cadherin Is Involved in the Progression of Post-myocardial Infarction Remodeling. <i>Journal of Biological Chemistry</i> , 2014, 289, 19408-19419.	3.4	40
33	Excitation propagation in three-dimensional engineered hearts using decellularized extracellular matrix. <i>Biomaterials</i> , 2014, 35, 7839-7850.	11.4	46
34	Microfabricated device for co-culture of sympathetic neuron and iPS-derived cardiomyocytes. , 2013, 2013, 3817-20.		5
35	Notch activation mediates angiotensin II-induced vascular remodeling by promoting the proliferation and migration of vascular smooth muscle cells. <i>Hypertension Research</i> , 2013, 36, 859-865.	2.7	37
36	Cardiac $\beta$ -catenin Alterations Play an Important Role in Gap Junction Remodeling of Cardiomyocytes Exposed to Rapid Electrical Stimulation. <i>Journal of Cardiac Failure</i> , 2013, 19, S166.	1.7	0

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37	Electrical Properties of Engineered Heart Tissues: Its Implication and Application for Arrhythmias. Journal of Cardiac Failure, 2013, 19, S120.	1.7	0
38	Sympathetic Innervation Induced in Engrafted Engineered Cardiomyocyte Sheets by Glial Cell Line Derived Neurotrophic Factor<i>In Vivo</i>. BioMed Research International, 2013, 2013, 1-8.	1.9	5
39	Axon Guidance of Sympathetic Neurons to Cardiomyocytes by Glial Cell Line-Derived Neurotrophic Factor (GDNF). PLoS ONE, 2013, 8, e65202.	2.5	25
40	Construction of Functional Cardiovascular Tissues Using Magnetic Nanoparticles. , 2013, , 221-228.		2
41	Sympathetic neurons modulate the beat rate of pluripotent cell-derived cardiomyocytes in vitro. Integrative Biology (United Kingdom), 2012, 4, 1532.	1.3	28
42	Complement C1q Activates Canonical Wnt Signaling and Promotes Aging-Related Phenotypes. Cell, 2012, 149, 1298-1313.	28.9	278
43	Device for co-culture of sympathetic neurons and cardiomyocytes using microfabrication. Lab on A Chip, 2011, 11, 2268.	6.0	57
44	Development of spatially separated coculture system of the sympathetic neuron and the cardiomyocyte. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 151-156.	1.4	0
45	Developmental changes in spontaneous beating rhythm of cardiac myocytes cultured in vitro by molecular diffusion culture method. Electronics and Communications in Japan, 2011, 94, 35-42.	0.5	0
46	Autonomic nervous system driven cardiomyocytes in vitro. , 2011, 2011, 1945-8.		2
47	Rate-dependent shortening of action potential duration increases ventricular vulnerability in failing rabbit heart. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H565-H573.	3.2	42
48	Glial cell line-derived neurotrophic factor (GDNF) enhances sympathetic neurite growth in rat hearts at early developmental stages. Biomedical Research, 2010, 31, 353-361.	0.9	8
49	The Cellular Prion Protein Identifies Bipotential Cardiomyogenic Progenitors. Circulation Research, 2010, 106, 111-119.	4.5	33
50	Small Animal Models for Arrhythmia Studies. , 2010, , 261-279.		0
51	Induction of Sympathetic Innervation to Stem Cell-Derived Cardiomyocytes. Journal of Cardiac Failure, 2010, 16, S139.	1.7	0
52	Effects of Electrical Stimulation in Sympathetic Neuron-Cardiomyocyte Co-cultures. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 1139-1144.	0.2	0
53	Development of semi-separated co-culture system of sympathetic neuron and cardiomyocyte. , 2009, 2009, 1832-5.		1
54	Regeneration of Cardiac Conduction System by Adipose Tissue Derived-stem Cells. Journal of Cardiac Failure, 2009, 15, S149.	1.7	3

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55	Effects of Aldosterone on Cx43 Gap Junction Expression in Neonatal Rat Cultured Cardiomyocytes. <i>Circulation Journal</i> , 2009, 73, 1504-1512.	1.6	17
56	Development of Semi-Separated Co-Culture System for Electrical Stimulation and Extracellular Recording of Sympathetic Neuron and Cardiomyocyte. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2009, 129, 1225-1230.	0.2	2
57	Long-term amiodarone treatment causes cardioselective hypothyroid-like alteration in gene expression profile. <i>European Journal of Pharmacology</i> , 2008, 578, 270-278.	3.5	7
58	T-type Ca <sup>2+</sup> channel blockers prevent cardiac cell hypertrophy through an inhibition of calcineurin- $\text{NFAT3}$ activation as well as L-type Ca <sup>2+</sup> channel blockers. <i>Life Sciences</i> , 2008, 82, 554-560.	4.3	43
59	Paracrine factors of vascular endothelial cells facilitate cardiomyocyte differentiation of mouse embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 413-418.	2.1	20
60	Changes of HCN gene expression and If currents in Nkx2.5-positive cardiomyocytes derived from murine embryonic stem cells during differentiation. <i>Biomedical Research</i> , 2008, 29, 195-203.	0.9	13
61	Developmental Changes in Spontaneous Beating Rhythm of Cardiac Myocytes in vitro Cultured with Molecular Diffusion Culture Method. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2008, 128, 1064-1069.	0.2	1
62	Contribution of hydrophobic and electrostatic interactions to the membrane integration of the Shaker K <sup>+</sup> channel voltage sensor domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8263-8268.	7.1	64
63	Aldosterone modulates If current through gene expression in cultured neonatal rat ventricular myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H2710-H2718.	3.2	32
64	Gap Junction Remodeling Caused by Aldosterone is Modulated by Ca <sup>2+</sup> Channel Activity. <i>Journal of Cardiac Failure</i> , 2007, 13, S34.	1.7	0
65	Construction of multi-layered cardiomyocyte sheets using magnetite nanoparticles and magnetic force. <i>Biotechnology and Bioengineering</i> , 2007, 96, 803-809.	3.3	87
66	Sema3a maintains normal heart rhythm through sympathetic innervation patterning. <i>Nature Medicine</i> , 2007, 13, 604-612.	30.7	209
67	Effects of Aldosterone on the Gap Junction Channel Protein Connexin43 in Neonatal Rat Ventricular Myocytes. <i>Journal of Cardiac Failure</i> , 2006, 12, S165.	1.7	0
68	Midkine Plays a Protective Role Against Cardiac Ischemia/Reperfusion Injury Through a Reduction of Apoptotic Reaction. <i>Circulation</i> , 2006, 114, 1713-1720.	1.6	91
69	Combined Effects of Nifekalant and Lidocaine on the Spiral-Type Re-Entry in a Perfused 2-Dimensional Layer of Rabbit Ventricular Myocardium. <i>Circulation Journal</i> , 2005, 69, 576-584.	1.6	23
70	Pathophysiological Significance of T-type Ca <sup>2+</sup> Channels: Expression of T-type Ca <sup>2+</sup> Channels in Fetal and Diseased Heart. <i>Journal of Pharmacological Sciences</i> , 2005, 99, 205-210.	2.5	49
71	Subtype Switching of L-Type Ca <sup>2+</sup> Channel From Cav1.3 to Cav1.2 in Embryonic Murine Ventricle. <i>Circulation Journal</i> , 2005, 69, 1405-1411.	1.6	26
72	Decreased Vagal Control Over Heart Rate in Rats With Right-Sided Congestive Heart Failure-Downregulation of Neuronal Nitric Oxide Synthase-. <i>Circulation Journal</i> , 2005, 69, 493-499.	1.6	20

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73	Cav3.2 subunit underlies the functional T-type Ca <sup>2+</sup> channel in murine hearts during the embryonic period. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H2257-H2263.	3.2	89
74	Sinoatrial Node Dysfunction and Early Unexpected Death of Mice With a Defect of <i>klotho</i> Gene Expression. <i>Circulation</i> , 2004, 109, 1776-1782.	1.6	201
75	Mechanosensitivity of GIRK Channels Is Mediated by Protein Kinase C-dependent Channel-Phosphatidylinositol 4,5-Bisphosphate Interaction. <i>Journal of Biological Chemistry</i> , 2004, 279, 7037-7047.	3.4	31
76	Rapid electrical stimulation of contraction modulates gap junction protein in neonatal rat cultured cardiomyocytes. <i>Journal of the American College of Cardiology</i> , 2004, 44, 914-922.	2.8	29
77	Overexpression of calpastatin by gene transfer prevents troponin I degradation and ameliorates contractile dysfunction in rat hearts subjected to ischemia/reperfusion. <i>Journal of Molecular and Cellular Cardiology</i> , 2003, 35, 1277-1284.	1.9	62
78	Chamber-specific differentiation of Nkx2.5-positive cardiac precursor cells from murine embryonic stem cells. <i>FASEB Journal</i> , 2003, 17, 740-742.	0.5	158
79	Ionic Mechanisms of Acquired QT Prolongation and Torsades de Pointes in Rabbits With Chronic Complete Atrioventricular Block. <i>Circulation</i> , 2002, 106, 2012-2018.	1.6	81
80	Residues and Mechanisms for Slow Activation and Ba <sup>2+</sup> Block of the Cardiac Muscarinic K <sup>+</sup> Channel, Kir3.1/Kir3.4. <i>Journal of Biological Chemistry</i> , 2000, 275, 35831-35839.	3.4	25
81	Downregulation of voltage-gated K <sup>+</sup> channels in rat heart with right ventricular hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H1725-H1731.	3.2	33
82	Novel Gating Mechanism of Polyamine Block in the Strong Inward Rectifier K Channel Kir2.1. <i>Journal of General Physiology</i> , 1999, 113, 555-564.	1.9	48
83	Vesnarinone Prolongs Action Potential Duration Without Reverse Frequency Dependence in Rabbit Ventricular Muscle by Blocking the Delayed Rectifier K <sup>+</sup> Current. <i>Circulation</i> , 1997, 96, 3696-3703.	1.6	26