Kiyotake Ishikawa

List of Publications by Year
in descending order

107 papers	3,549 citations	159585 30 h-index	149698 56 g-index
120 all docs	120 docs citations	120 times ranked	5120 citing authors

#	Article	IF	Citations
1	Empagliflozin Ameliorates Adverse LeftÂVentricular Remodeling in Nondiabetic Heart Failure by Enhancing Myocardial Energetics. Journal of the American College of Cardiology, 2019, 73, 1931-1944.	2.8	411
2	FTO-Dependent N ⁶ -Methyladenosine Regulates Cardiac Function During Remodeling and Repair. Circulation, 2019, 139, 518-532.	1.6	369
3	Sphingosine-1-Phosphate Receptor Agonist Fingolimod Increases Myocardial Salvage and Decreases Adverse Postinfarction Left Ventricular Remodeling in a Porcine Model of Ischemia/Reperfusion. Circulation, 2016, 133, 954-966.	1.6	155
4	Neutralizing Antibodies Against AAV Serotypes 1, 2, 6, and 9 in Sera of Commonly Used Animal Models. Molecular Therapy, 2012, 20, 73-83.	8.2	143
5	Gene Therapy for Heart Failure. Circulation Research, 2012, 110, 777-793.	4.5	130
6	Empagliflozin Ameliorates Diastolic Dysfunction and Left Ventricular Fibrosis/Stiffness in Nondiabetic HeartÂFailure. JACC: Cardiovascular Imaging, 2021, 14, 393-407.	5.3	114
7	Gene therapy for the treatment of heart failure: promise postponed. European Heart Journal, 2016, 37, 1651-1658.	2.2	110
8	Therapeutic Efficacy of AAV1.SERCA2a in Monocrotaline-Induced Pulmonary Arterial Hypertension. Circulation, 2013, 128, 512-523.	1.6	97
9	SUMO-1 Gene Transfer Improves Cardiac Function in a Large-Animal Model of Heart Failure. Science Translational Medicine, 2013, 5, 211ra159.	12.4	96
10	Characterization of right ventricular remodeling and failure in a chronic pulmonary hypertension model. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1204-H1215.	3.2	82
11	Myocardial Delivery of Lipidoid Nanoparticle Carrying modRNA Induces Rapid and Transient Expression. Molecular Therapy, 2016, 24, 66-75.	8.2	82
12	Body temperature correlates with mortality in COVID-19 patients. Critical Care, 2020, 24, 298.	5.8	81
13	Human Cardiac Gene Therapy. Circulation Research, 2018, 123, 601-613.	4.5	75
14	Cardiac I-1c Overexpression With Reengineered AAV Improves Cardiac Function in Swine Ischemic Heart Failure. Molecular Therapy, 2014, 22, 2038-2045.	8.2	70
15	Left Ventricular Unloading Using an Impella CP Improves Coronary Flow and Infarct Zone Perfusion in Ischemic Heart Failure. Journal of the American Heart Association, 2018, 7, .	3.7	65
16	AAV9.I-1c Delivered via Direct Coronary Infusion in a Porcine Model of Heart Failure Improves Contractility and Mitigates Adverse Remodeling. Circulation: Heart Failure, 2013, 6, 310-317.	3.9	64
17	Intratracheal Gene Delivery of SERCA2a Ameliorates Chronic Post-Capillary Pulmonary Hypertension. Journal of the American College of Cardiology, 2016, 67, 2032-2046.	2.8	62
18	Deletion of delta-like 1 homologue accelerates fibroblastâ€“myofibroblast differentiation and induces myocardial fibrosis. European Heart Journal, 2019, 40, 967-978.	2.2	62

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19	Stimulating Myocardial Regeneration with Periostin Peptide in Large Mammals Improves Function Post-Myocardial Infarction but Increases Myocardial Fibrosis. PLoS ONE, 2013, 8, e59656.	2.5	62
20	SERCA2a Gene Transfer Enhances eNOS Expression and Activity in Endothelial Cells. Molecular Therapy, 2010, 18, 1284-1292.	8.2	61
21	Inhibition of PKCÎ±/Î² With Ruboxistaurin Antagonizes Heart Failure in Pigs After Myocardial Infarction Injury. Circulation Research, 2011, 109, 1396-1400.	4.5	57
22	Targeted delivery of therapeutic agents to the heart. Nature Reviews Cardiology, 2021, 18, 389-399.	13.7	51
23	A mechanistic framework for cardiometabolic and coronary artery diseases. , 2022, 1, 85-100.		51
24	Assessing left ventricular systolic dysfunction after myocardial infarction: are ejection fraction and dP/dt_{max} complementary or redundant?. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1423-H1428.	3.2	49
25	Increased Stiffness Is the Major Early Abnormality in a Pig Model of Severe Aortic Stenosis and Predisposes to Congestive Heart Failure in the Absence of Systolic Dysfunction. Journal of the American Heart Association, 2015, 4, .	3.7	49
26	Gene delivery methods in cardiac gene therapy. Journal of Gene Medicine, 2011, 13, 566-572.	2.8	43
27	Characterizing preclinical models of ischemic heart failure: differences between LAD and LCx infarctions. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1478-H1486.	3.2	43
28	Adeno-associated virus-mediated gene therapy in cardiovascular disease. Current Opinion in Cardiology, 2015, 30, 228-234.	1.8	39
29	Myocardial injury characterized by elevated cardiac troponin and inâ€hospital mortality of COVIDâ€19: An insight from a metaâ€analysis. Journal of Medical Virology, 2021, 93, 51-55.	5.0	38
30	Concomitant Intravenous Nitroglycerin With Intracoronary Delivery of AAV1.SERCA2a Enhances Gene Transfer in Porcine Hearts. Molecular Therapy, 2012, 20, 565-571.	8.2	34
31	Stem Cell Factor Gene Transfer Improves Cardiac Function After Myocardial Infarction in Swine. Circulation: Heart Failure, 2015, 8, 167-174.	3.9	33
32	Imaging Cardiovascular and Lung Macrophages With the Positron Emission Tomography Sensor ⁶⁴ Cu-Macrin in Mice, Rabbits, and Pigs. Circulation: Cardiovascular Imaging, 2020, 13, e010586.	2.6	32
33	Protein Phosphatase Inhibitor-1 GeneÂTherapy in a Swine Model of NonischemicÂHeart Failure. Journal of the American College of Cardiology, 2017, 70, 1744-1756.	2.8	30
34	Difference of intensity and disparity in impact of climate on several vascular diseases. Heart and Vessels, 2012, 27, 1-9.	1.2	28
35	Percutaneous Approaches for Efficient Cardiac Gene Delivery. Journal of Cardiovascular Translational Research, 2013, 6, 649-659.	2.4	28
36	Introducing Genes to the Heart. Circulation Research, 2017, 120, 33-35.	4.5	27

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37	Acute Left Ventricular Unloading Reduces Atrial Stretch and InhibitsÂAtrialÂArrhythmias. Journal of the American College of Cardiology, 2018, 72, 738-750.	2.8	27
38	Experimental models of cardiac physiology and pathology. Heart Failure Reviews, 2019, 24, 601-615.	3.9	23
39	Gene Transfer for Ischemic Heart Failure in a Preclinical Model. Journal of Visualized Experiments, 2011, , .	0.3	20
40	Development of a preclinical model of ischemic cardiomyopathy in swine. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H530-H537.	3.2	20
41	The incidence and clinical significance of non-isolation of the pulmonary vein carina after encircling ipsilateral pulmonary veins isolation for paroxysmal atrial fibrillation: a pitfall of the double-Lasso technique. Europace, 2013, 15, 33-40.	1.7	20
42	Targeted Gene Delivery through the Respiratory System: Rationale for Intratracheal Gene Transfer. Journal of Cardiovascular Development and Disease, 2019, 6, 8.	1.6	19
43	Safety and longâ€term efficacy of AAV1.SERCA2a using nebulizer delivery in a pig model of pulmonary hypertension. Pulmonary Circulation, 2018, 8, 1-4.	1.7	18
44	Primary Effect of SERCA2a Gene Transfer on Conduction Reserve in Chronic Myocardial Infarction. Journal of the American Heart Association, 2018, 7, e009598.	3.7	16
45	Increased Afterload Following MyocardialÂInfarction Promotes Conduction-Dependent Arrhythmias ThatÂAre Unmasked by Hypokalemia. JACC Basic To Translational Science, 2017, 2, 258-269.	4.1	15
46	Experimental Models of Cardiovascular Diseases: Overview. Methods in Molecular Biology, 2018, 1816, 3-14.	0.9	15
47	Combination Proximal Pulmonary Artery Coiling and Distal Embolization Induces Chronic Elevations in Pulmonary Artery Pressure in Swine. PLoS ONE, 2015, 10, e0124526.	2.5	15
48	A Pig Model of Myocardial Infarction: Catheter-Based Approaches. Methods in Molecular Biology, 2018, 1816, 281-294.	0.9	14
49	Management of drug-eluting stent restenosis. Journal of Invasive Cardiology, 2012, 24, 178-82.	0.4	14
50	Reninâ€Angiotensin System Blocker Use May Be Associated with Suppression of Atrial Fibrillation Recurrence after Pulmonary Vein Isolation. PACE - Pacing and Clinical Electrophysiology, 2011, 34, 296-303.	1.2	13
51	A Novel Large Animal Model of Thrombogenic Coronary Microembolization. Frontiers in Cardiovascular Medicine, 2019, 6, 157.	2.4	13
52	Comparison of Left Ventricular Stroke Volume Assessment by Twoâ€•and Threeâ€Dimensional Echocardiography in a Swine Model of Acute Myocardial Infarction Validated by Thermodilution Method. Echocardiography, 2012, 29, 1091-1095.	0.9	11
53	Rat Model of Cardiotoxic Drug-Induced Cardiomyopathy. Methods in Molecular Biology, 2018, 1816, 221-232.	0.9	11
54	Comparison of Hemodynamic Support by Impella vs. Peripheral Extra-Corporeal Membrane Oxygenation: A Porcine Model of Acute Myocardial Infarction. Frontiers in Cardiovascular Medicine, 2020, 7, 99.	2.4	10

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55	Ventricular Arrhythmia in X-linked Emery-Dreifuss Muscular Dystrophy: A Lesson from an Autopsy Case. Internal Medicine, 2011, 50, 459-462.	0.7	9
56	Impact of chronic kidney disease on a re-percutaneous coronary intervention for sirolimus-eluting stent restenosis. Coronary Artery Disease, 2012, 23, 528-532.	0.7	9
57	Intracoronary Injection of Large Stem Cells. Circulation: Cardiovascular Interventions, 2015, 8, .	3.9	8
58	Cardiac Gene Delivery in Large Animal Models: Antegrade Techniques. Methods in Molecular Biology, 2017, 1521, 227-235.	0.9	8
59	Inhaled Gene Transfer for Pulmonary Circulation. Methods in Molecular Biology, 2017, 1521, 339-349.	0.9	7
60	Echocardiographic and hemodynamic assessment for predicting early clinical events in severe acute mitral regurgitation. International Journal of Cardiovascular Imaging, 2018, 34, 171-175.	1.5	7
61	Translational Aspects of Adeno-Associated Virusâ€“Mediated Cardiac Gene Therapy. Human Gene Therapy, 2018, 29, 1341-1351.	2.7	7
62	Correlation between myocardial strain and adverse remodeling in a non-diabetic model of heart failure following empagliflozin therapy. Expert Review of Cardiovascular Therapy, 2020, 18, 635-642.	1.5	7
63	Effects of Therapeutic Hypothermia on Normal and Ischemic Heart. Frontiers in Cardiovascular Medicine, 2021, 8, 642843.	2.4	7
64	From bedside to bench and back again: translational studies of mechanical unloading of the left ventricle to promote recovery after acute myocardial infarction. F1000Research, 2018, 7, 1852.	1.6	7
65	Reninâ€“angiotensin system inhibitors can suppress atrial fibrillation recurrence after encircling ipsilateral pulmonary vein isolation in patients with a non-dilated left atrium. JRAAS - Journal of the Renin-Angiotensin-Aldosterone System, 2012, 13, 487-495.	1.7	6
66	Temporal changes of strain parameters in the progress of chronic ischemia: with comparison to transmural infarction. International Journal of Cardiovascular Imaging, 2012, 28, 1671-1681.	1.5	6
67	Reduced longitudinal contraction is associated with ischemic mitral regurgitation after posterior MI. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H322-H329.	3.2	6
68	Stem cell therapy for acute myocardial infarction. Coronary Artery Disease, 2018, 29, 89-91.	0.7	6
69	Modeling Pulmonary Hypertension: A Pig Model of Postcapillary Pulmonary Hypertension. Methods in Molecular Biology, 2018, 1816, 367-383.	0.9	6
70	Speckle-Tracking Echocardiographic Strain Analysis Reliably Estimates Degree of Acute LV Unloading During Mechanical LV Support by Impella. Journal of Cardiovascular Translational Research, 2019, 12, 135-141.	2.4	6
71	Left Ventricular Assist Devices for Acute Myocardial Infarct Size Reduction: Meta-analysis. Journal of Cardiovascular Translational Research, 2021, 14, 467-475.	2.4	6
72	Current Methods in Cardiac Gene Therapy: Overview. Methods in Molecular Biology, 2017, 1521, 3-14.	0.9	5

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73	Atrial stretch and arrhythmia after myocardial infarction. Aging, 2018, 11, 11-12.	3.1	5
74	Swine Model of Mitral Regurgitation Induced Heart Failure. Methods in Molecular Biology, 2018, 1816, 327-335.	0.9	5
75	Direct Myocardial Injection of Vectors. Methods in Molecular Biology, 2017, 1521, 237-248.	0.9	5
76	Consideration of clinical translation of cardiac AAV gene therapy. Cell & Gene Therapy Insights, 2020, 6, 609-615.	0.1	5
77	Distribution of cardiomyocyte-selective adeno-associated virus serotype 9 vectors in swine following intracoronary and intravenous infusion. Physiological Genomics, 2022, 54, 261-272.	2.3	5
78	Patterns of Pulmonary Vein Potential Disappearance During Encircling Ipsilateral Pulmonary Vein Isolation Can Predict Recurrence of Atrial Fibrillation. Circulation Journal, 2014, 78, 601-609.	1.6	4
79	Pig Model of Increased Cardiac Afterload Induced by Ascending Aortic Banding. Methods in Molecular Biology, 2018, 1816, 337-342.	0.9	4
80	Echocardiographic Left Ventricular Mass Estimation: Two-Dimensional Area-Length Method is Superior to M-Mode Linear Method in Swine Models of Cardiac Diseases. Journal of Cardiovascular Translational Research, 2020, 13, 648-658.	2.4	4
81	Endobronchial Aerosolized AAV1.SERCA2a Gene Therapy in a Pulmonary Hypertension Pig Model: Addressing the Lung Delivery Bottleneck. Human Gene Therapy, 2022, 33, 550-559.	2.7	4
82	Gene Transfer to Rodent Hearts In Vivo. Methods in Molecular Biology, 2017, 1521, 195-204.	0.9	3
83	Acute Mechanical LV Unloading in Ischemia Reperfusion Injury. Journal of the American College of Cardiology, 2018, 72, 515-517.	2.8	3
84	Recent highlights and advances in cardiac gene therapy. Discovery Medicine, 2019, 28, 229-235.	0.5	3
85	Sterile Abscess in the Myocardium after Direct Intramyocardial Injection Related to Gene Therapy in a Swine Model. ISRN Cardiology, 2011, 2011, 1-2.	1.6	2
86	Revisiting Old Players in the Revitalized Field of CardiovascularÂGene Therapyâˆ—. Journal of the American College of Cardiology, 2015, 66, 166-168.	2.8	2
87	Cardiovascular Research Center at Icahn School of Medicine at Mount Sinai Translational Mission. Circulation Research, 2017, 121, 1316-1319.	4.5	2
88	Impaired left ventricular global longitudinal strain is associated with elevated left ventricular filling pressure after myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H1474-H1481.	3.2	2
89	Route TESI. Circulation Research, 2017, 120, 1055-1056.	4.5	2
90	Impaired Diastolic Function Predicts Improved Ischemic Myocardial Flow by Mechanical Left Ventricular Unloading in a Swine Model of Ischemic Heart Failure. Frontiers in Cardiovascular Medicine, 2021, 8, 795322.	2.4	2

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91	<scp>SUMOylation</scp> does not affect cardiac troponin I stability but alters indirectly the development of force in response to Ca²⁺. FEBS Journal, 2022, 289, 6267-6285.	4.7	2
92	Multimodality Imaging of Chronic Ischemia. Cardiology Research and Practice, 2011, 2011, 1-4.	1.1	1
93	Treatment of Sirolimus-Eluting Stent Restenosis: Additional Stent, Balloon Angioplasty, and Coronary Artery Bypass Graft. Journal of Cardiac Surgery, 2013, 28, 97-101.	0.7	1
94	Reply to â€œLetter to the editor: Characterizing preclinical model of ischemic heart failure: difference between LAD and LCx infarctionsâ€. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H365-H366.	3.2	1
95	The Transgenic Diabetic Pig Heart. Journal of the American College of Cardiology, 2017, 69, 144-146.	2.8	1
96	LV-MEMS. Circulation: Cardiovascular Interventions, 2018, 11, e006768.	3.9	1
97	Chronic Pulmonary Artery Embolization Models in Large Animals. Methods in Molecular Biology, 2018, 1816, 353-366.	0.9	1
98	The Art of War in Drug Development. JACC Basic To Translational Science, 2019, 4, 715-716.	4.1	1
99	Gene therapy for heart failure: status quo and quo vadis. Discovery Medicine, 2017, 23, 371-377.	0.5	1
100	Left Atrial Remodeling and Dysfunction in Swine Models of Mitral Regurgitation. American Journal of Physiology - Heart and Circulatory Physiology, 2022, , .	3.2	1
101	Response to Letter Regarding Article, â€œIntracoronary Injection of Large Stem Cells: Size Mattersâ€. Circulation: Cardiovascular Interventions, 2015, 8, e002855.	3.9	0
102	Editorial Commentary: Clinical gene therapy trials for heart failure: Did they fail?. Trends in Cardiovascular Medicine, 2017, 27, 223-224.	4.9	0
103	MYOCARDIAL OXYGENATION USING BLOOD LEVEL-OXYGEN DEPENDENT SEQUENCE IN MAGNETIC RESONANCE DETERMINES MYOCARDIAL ENERGETICS AND CAPILLARY DENSITY. Journal of the American College of Cardiology, 2017, 69, 1439.	2.8	0
104	AAV shedding after intracoronary delivery: just a safety concern?. Gene Therapy, 2020, 27, 111-112.	4.5	0
105	Novel Porcine Model of Coronary Dissection Reveals the Impact of Impella on Dissected Coronary Arterial Hemodynamics. Frontiers in Cardiovascular Medicine, 2020, 7, 162.	2.4	0
106	Editorial: Science in Mechanical Circulatory Support. Frontiers in Cardiovascular Medicine, 2021, 8, 676595.	2.4	0
107	Abstract 301: An m6A Demethylase, FTO Mediates Post-transcriptional mRNA Modifications to Regulate Cardiac and Cardiomyocyte Function. Circulation Research, 2018, 123, .	4.5	0