

# Wendy Keung

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

3,099  
citations

186209

28  
h-index

161767

54  
g-index

71  
all docs

71  
docs citations

71  
times ranked

5479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Circulating high-sensitivity troponin T and microRNAs as markers of myocardial damage during childhood leukaemia treatment. <i>Pediatric Research</i> , 2021, 89, 1245-1252.	1.1	16
2	A Heartâ€œBreast Cancerâ€œonâ€œaâ€œChip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. <i>Small</i> , 2021, 17, e2004258.	5.2	57
3	Organâ€œonâ€œaâ€œChip: A Heartâ€œBreast Cancerâ€œonâ€œaâ€œChip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy ( <i>Small</i> 15/2021). <i>Small</i> , 2021, 17, 2170070.	5.2	0
4	Human Pluripotent Stem Cells for Modeling of Anticancer Therapy-Induced Cardiotoxicity and Cardioprotective Drug Discovery. <i>Frontiers in Pharmacology</i> , 2021, 12, 650039.	1.6	5
5	Arrhythmic Risk Assessment of Hypokalaemia Using Human Pluripotent Stem Cell-Derived Cardiac Anisotropic Sheets. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 681665.	1.8	2
6	Singleâ€œCell Transcriptomics of Engineered Cardiac Tissues From Patientâ€œSpecific Induced Pluripotent Stem Cellâ€œDerived Cardiomyocytes Reveals Abnormal Developmental Trajectory and Intrinsic Contractile Defects in Hypoplastic Right Heart Syndrome. <i>Journal of the American Heart Association</i> , 2020, 9, e016528.	1.6	30
7	Myocardial Tissue Engineering: Nonmulberry Silk Based Ink for Fabricating Mechanically Robust Cardiac Patches and Endothelialized Myocardiumâ€œonâ€œaâ€œChip Application ( <i>Adv. Funct. Mater.</i> 12/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070079.	7.8	2
8	Nonmulberry Silk Based Ink for Fabricating Mechanically Robust Cardiac Patches and Endothelialized Myocardiumâ€œonâ€œaâ€œChip Application. <i>Advanced Functional Materials</i> , 2020, 30, 1907436.	7.8	42
9	Combinatorial Treatment of Human Cardiac Engineered Tissues With Biomimetic Cues Induces Functional Maturation as Revealed by Optical Mapping of Action Potentials and Calcium Transients. <i>Frontiers in Physiology</i> , 2020, 11, 165.	1.3	10
10	Sarco/endoplasmic reticulum Ca <sup>2+</sup> -ATPase is a more effective calcium remover than sodium-calcium exchanger in human embryonic stem cell-derived cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H1105-H1115.	1.5	11
11	Structural and Mechanistic Bases of Nuclear Calcium Signaling in Human Pluripotent Stem Cell-Derived Ventricular Cardiomyocytes. <i>Stem Cells International</i> , 2019, 2019, 1-17.	1.2	4
12	Modulation of chromatin remodeling proteins SMYD1 and SMARCD1 promotes contractile function of human pluripotent stem cell-derived ventricular cardiomyocyte in 3D-engineered cardiac tissues. <i>Scientific Reports</i> , 2019, 9, 7502.	1.6	8
13	Human Cardiac Ventricularâ€œLike Organoid Chambers and Tissue Strips From Pluripotent Stem Cells as a Twoâ€œTiered Assay for Inotropic Responses. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 106, 402-414.	2.3	36
14	Human ISL1+ Ventricular Progenitors Self-Assemble into an Inâ€œVivo Functional Heart Patch and Preserve Cardiac Function Post Infarction. <i>Molecular Therapy</i> , 2018, 26, 1644-1659.	3.7	38
15	Bioengineering an electro-mechanically functional miniature ventricular heart chamber from human pluripotent stem cells. <i>Biomaterials</i> , 2018, 163, 116-127.	5.7	130
16	Polycystin-2 Plays an Essential Role in Glucose Starvation-Induced Autophagy in Human Embryonic Stem Cell-Derived Cardiomyocytes. <i>Stem Cells</i> , 2018, 36, 501-513.	1.4	20
17	TRPV6 protects ER stress-induced apoptosis via ATF6 $\pm$ -TRPV6-JNK pathway in human embryonic stem cell-derived cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 120, 1-11.	0.9	9
18	Probing flecainide block of I using human pluripotent stem cell-derived ventricular cardiomyocytes adapted to automated patch-clamping and 2D monolayers. <i>Toxicology Letters</i> , 2018, 294, 61-72.	0.4	7

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19	Electrophysiological mechanisms of long and short QT syndromes. <i>IJC Heart and Vasculature</i> , 2017, 14, 8-13.	0.6	50
20	Mouse models of atherosclerosis: a historical perspective and recent advances. <i>Lipids in Health and Disease</i> , 2017, 16, 12.	1.2	130
21	Tachycardia-bradycardia syndrome: Electrophysiological mechanisms and future therapeutic approaches (Review). <i>International Journal of Molecular Medicine</i> , 2017, 39, 519-526.	1.8	28
22	Machine Learning of Human Pluripotent Stem Cell-Derived Engineered Cardiac Tissue Contractility for Automated Drug Classification. <i>Stem Cell Reports</i> , 2017, 9, 1560-1572.	2.3	45
23	AAV-mediated conversion of human pluripotent stem cell-derived pacemaker. <i>Biochemical and Biophysical Research Communications</i> , 2017, 494, 346-351.	1.0	4
24	An abnormal TRPV4-related cytosolic Ca <sup>2+</sup> rise in response to uniaxial stretch in induced pluripotent stem cells-derived cardiomyocytes from dilated cardiomyopathy patients. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2964-2972.	1.8	17
25	Effects of pharmacological gap junction and sodium channel blockade on S1S2 restitution properties in Langendorff-perfused mouse hearts. <i>Oncotarget</i> , 2017, 8, 85341-85352.	0.8	7
26	Electrophysiological Mechanisms of Brugada Syndrome: Insights from Pre-clinical and Clinical Studies. <i>Frontiers in Physiology</i> , 2016, 7, 467.	1.3	39
27	Genetic and Pharmacological Inhibition of Malonyl CoA Decarboxylase Does Not Exacerbate Age-Related Insulin Resistance in Mice. <i>Diabetes</i> , 2016, 65, 1883-1891.	0.3	13
28	Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers. <i>Analytical Chemistry</i> , 2016, 88, 10019-10027.	3.2	181
29	Non-cell autonomous cues for enhanced functionality of human embryonic stem cell-derived cardiomyocytes via maturation of sarcolemmal and mitochondrial KATP channels. <i>Scientific Reports</i> , 2016, 6, 34154.	1.6	11
30	Accumulation of ceramide in slow-twitch muscle contributes to the development of insulin resistance in the obese JCR:LA-cp rat. <i>Experimental Physiology</i> , 2015, 100, 730-741.	0.9	10
31	Morphometric Analysis of Human Embryonic Stem Cell-Derived Ventricular Cardiomyocytes: Determining the Maturation State of a Population by Quantifying Parameters in Individual Cells. <i>Stem Cells International</i> , 2015, 2015, 1-13.	1.2	5
32	Activating PPAR $\gamma$ Prevents Post-Ischemic Contractile Dysfunction in Hypertrophied Neonatal Hearts. <i>Circulation Research</i> , 2015, 117, 41-51.	2.0	60
33	Proteomic Analysis of Human Pluripotent Stem Cell-Derived, Fetal, and Adult Ventricular Cardiomyocytes Reveals Pathways Crucial for Cardiac Metabolism and Maturation. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 427-436.	5.1	61
34	Phospholamban as a Crucial Determinant of the Inotropic Response of Human Pluripotent Stem Cell-Derived Ventricular Cardiomyocytes and Engineered 3-Dimensional Tissue Constructs. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 193-202.	2.1	33
35	Treatment with the 3-Ketoacyl-CoA Thiolase Inhibitor Trimetazidine Does Not Exacerbate Whole-Body Insulin Resistance in Obese Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 349, 487-496.	1.3	17
36	Developmental cues for the maturation of metabolic, electrophysiological and calcium handling properties of human pluripotent stem cell-derived cardiomyocytes. <i>Stem Cell Research and Therapy</i> , 2014, 5, 17.	2.4	67

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37	A Simple, Cost-Effective but Highly Efficient System for Deriving Ventricular Cardiomyocytes from Human Pluripotent Stem Cells. <i>Stem Cells and Development</i> , 2014, 23, 1704-1716.	1.1	105
38	Trimetazidine Therapy Prevents Obesity-Induced Cardiomyopathy in Mice. <i>Canadian Journal of Cardiology</i> , 2014, 30, 940-944.	0.8	26
39	Inhibition of Carnitine Palmitoyltransferase-1 Activity Alleviates Insulin Resistance in Diet-Induced Obese Mice. <i>Diabetes</i> , 2013, 62, 711-720.	0.3	98
40	Effect of engineered anisotropy on the susceptibility of human pluripotent stem cell-derived ventricular cardiomyocytes to arrhythmias. <i>Biomaterials</i> , 2013, 34, 8878-8886.	5.7	66
41	Differential effects of central ghrelin on fatty acid metabolism in hypothalamic ventral medial and arcuate nuclei. <i>Physiology and Behavior</i> , 2013, 118, 165-170.	1.0	36
42	Epigenetic Regulation of the Electrophysiological Phenotype of Human Embryonic Stem Cell-Derived Ventricular Cardiomyocytes: Insights for Driven Maturation and Hypertrophic Growth. <i>Stem Cells and Development</i> , 2013, 22, 2678-2690.	1.1	25
43	Important role of ventromedial hypothalamic carnitine palmitoyltransferase-1a in the control of food intake. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 305, E336-E347.	1.8	11
44	Transcriptome-Guided Functional Analyses Reveal Novel Biological Properties and Regulatory Hierarchy of Human Embryonic Stem Cell-Derived Ventricular Cardiomyocytes Crucial for Maturation. <i>PLoS ONE</i> , 2013, 8, e77784.	1.1	35
45	Inhibition of malonyl-CoA decarboxylase reduces the inflammatory response associated with insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E1459-E1468.	1.8	19
46	Cardiac hypertrophy in the newborn delays the maturation of fatty acid $\beta$ -oxidation and compromises postischemic functional recovery. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H1784-H1794.	1.5	15
47	Glucagon and a glucagon-like 1 receptor agonist increases cardiac performance with different metabolic effects in insulin-resistant hearts. <i>British Journal of Pharmacology</i> , 2012, 165, 2736-2748.	2.7	28
48	Inhibition of Serine Palmitoyl Transferase I Reduces Cardiac Ceramide Levels and Increases Glycolysis Rates following Diet-Induced Insulin Resistance. <i>PLoS ONE</i> , 2012, 7, e37703.	1.1	44
49	Stimulation of glucose oxidation protects against acute myocardial infarction and reperfusion injury. <i>Cardiovascular Research</i> , 2012, 94, 359-369.	1.8	154
50	Non-genomic activation of adenylyl cyclase and protein kinase G by $17\beta$ -estradiol in vascular smooth muscle of the rat superior mesenteric artery. <i>Pharmacological Research</i> , 2011, 64, 509-516.	3.1	23
51	Intracerebroventricular Leptin Administration Differentially Alters Cardiac Energy Metabolism in Mice Fed a Low-fat and High-fat Diet. <i>Journal of Cardiovascular Pharmacology</i> , 2011, 57, 103-113.	0.8	13
52	Targeting fatty acid and carbohydrate oxidation - A novel therapeutic intervention in the ischemic and failing heart. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 1333-1350.	1.9	298
53	Circulating Sex Hormones Modulate Vascular Contractions and Acute Response to $17\beta$ -Estradiol in Rat Mesenteric Arteries. <i>Pharmacology</i> , 2011, 88, 55-64.	0.9	6
54	Chronic Central Leptin Decreases Food Intake and Improves Glucose Tolerance in Diet-Induced Obese Mice Independent of Hypothalamic Malonyl CoA Levels and Skeletal Muscle Insulin Sensitivity. <i>Endocrinology</i> , 2011, 152, 4127-4137.	1.4	12

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55	Malonyl-CoA mediates leptin hypothalamic control of feeding independent of inhibition of CPT-1a. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R209-R217.	0.9	19
56	Inhibition of De Novo Ceramide Synthesis Reverses Diet-Induced Insulin Resistance and Enhances Whole-Body Oxygen Consumption. Diabetes, 2010, 59, 2453-2464.	0.3	296
57	Isoproterenol stimulates 5 $\alpha$ -AMP-activated protein kinase and fatty acid oxidation in neonatal hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1135-H1145.	1.5	14
58	Role of fatty acid uptake and fatty acid $\beta$ -oxidation in mediating insulin resistance in heart and skeletal muscle. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 1-22.	1.2	203
59	Role of the atypical protein kinase C $\eta$ in regulation of 5 $\alpha$ -AMP-activated protein kinase in cardiac and skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E349-E357.	1.8	21
60	Genistein potentiates protein kinase A activity in porcine coronary artery. Molecular and Cellular Biochemistry, 2008, 311, 37-44.	1.4	10
61	Transient activation of P38 MAP kinase and up-regulation of Pim-1 kinase in cardiac hypertrophy despite no activation of AMPK. Journal of Molecular and Cellular Cardiology, 2008, 45, 404-410.	0.9	14
62	Metabolic response to an acute jump in cardiac workload: effects on malonyl-CoA, mechanical efficiency, and fatty acid oxidation. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H954-H960.	1.5	28
63	Leptin activates hypothalamic acetyl-CoA carboxylase to inhibit food intake. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17358-17363.	3.3	188
64	NON-GENOMIC VASCULAR ACTIONS OF FEMALE SEX HORMONES: PHYSIOLOGICAL IMPLICATIONS AND SIGNALLING PATHWAYS. Clinical and Experimental Pharmacology and Physiology, 2007, 34, 822-826.	0.9	21
65	$\beta$ -Lipoic acid increases cardiac glucose oxidation independent of AMP-activated protein kinase in isolated working rat hearts. Basic Research in Cardiology, 2007, 102, 436-444.	2.5	8
66	Acute impairment of contractile responses by 17 $\beta$ -estradiol is cAMP and protein kinase G dependent in vascular smooth muscle cells of the porcine coronary arteries. British Journal of Pharmacology, 2005, 144, 71-79.	2.7	28
67	Nongenomic responses to 17 $\beta$ -estradiol in male rat mesenteric arteries abolish intrinsic gender differences in vascular responses. British Journal of Pharmacology, 2005, 146, 1148-1155.	2.7	17
68	Phytoestrogens and Cardiovascular Disorders. Progress in Experimental Cardiology, 2004, , 513-524.	0.0	0