# Wendy Keung

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5663402/publications.pdf

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|---|---|---|---|
| 68 papers | 3,099 citations | 186265 28 h-index | 161849 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. Pediatric Research, 2021, 89, 1245-1252. | 2.3 | 16 |
| 2 | A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. Small, 2021, 17, e2004258. | 10.0 | 57 |
| 3 | Organâ€onâ€aâ€Chip: A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy (Small 15/2021). Small, 2021, 17, 2170070. | 10.0 | 0 |
| 4 | Human Pluripotent Stem Cells for Modeling of Anticancer Therapy-Induced Cardiotoxicity and Cardioprotective Drug Discovery. Frontiers in Pharmacology, 2021, 12, 650039. | 3.5 | 5 |
| 5 | Arrhythmic Risk Assessment of Hypokalaemia Using Human Pluripotent Stem Cell-Derived Cardiac Anisotropic Sheets. Frontiers in Cell and Developmental Biology, 2021, 9, 681665. | 3.7 | 2 |
| 6 | Singleâ€Cell Transcriptomics of Engineered Cardiac Tissues From Patientâ€Specific Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes Reveals Abnormal Developmental Trajectory and Intrinsic Contractile Defects in Hypoplastic Right Heart Syndrome. Journal of the American Heart Association, 2020, 9, e016528. | 3.7 | 30 |
| 7 | Myocardial Tissue Engineering: Nonmulberry Silk Based Ink for Fabricating Mechanically Robust Cardiac Patches and Endothelialized Myocardiumâ€onâ€aâ€Chip Application (Adv. Funct. Mater. 12/2020). Advanced Functional Materials, 2020, 30, 2070079. | 14.9 | 2 |
| 8 | Nonmulberry Silk Based Ink for Fabricating Mechanically Robust Cardiac Patches and Endothelialized Myocardiumâ€onâ€aâ€Chip Application. Advanced Functional Materials, 2020, 30, 1907436. | 14.9 | 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. Frontiers in Physiology, 2020, 11, 165. | 2.8 | 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. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H1105-H1115. | 3.2 | 11 |
| 11 | Structural and Mechanistic Bases of Nuclear Calcium Signaling in Human Pluripotent Stem Cell-Derived Ventricular Cardiomyocytes. Stem Cells International, 2019, 2019, 1-17. | 2.5 | 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. Scientific Reports, 2019, 9, 7502. | 3.3 | 8 |
| 13 | Human Cardiac Ventricularâ€Like Organoid Chambers and Tissue Strips From Pluripotent Stem Cells as a Twoâ€Tiered Assay for Inotropic Responses. Clinical Pharmacology and Therapeutics, 2019, 106, 402-414. | 4.7 | 36 |
| 14 | Human ISL1+ Ventricular Progenitors Self-Assemble into an InÂVivo Functional Heart Patch and Preserve Cardiac Function Post Infarction. Molecular Therapy, 2018, 26, 1644-1659. | 8.2 | 38 |
| 15 | Bioengineering an electro-mechanically functional miniature ventricular heart chamber from human pluripotent stem cells. Biomaterials, 2018, 163, 116-127. | 11.4 | 130 |
| 16 | Polycystin-2 Plays an Essential Role in Glucose Starvation-Induced Autophagy in Human Embryonic Stem Cell-Derived Cardiomyocytes. Stem Cells, 2018, 36, 501-513. | 3.2 | 20 |
| 17 | TRPV6 protects ER stress-induced apoptosis via ATF6Î±-TRPV6-JNK pathway in human embryonic stem cell-derived cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2018, 120, 1-11. | 1.9 | 9 |
| 18 | Probing flecainide block of I using human pluripotent stem cell-derived ventricular cardiomyocytes adapted to automated patch-clamping and 2D monolayers. Toxicology Letters, 2018, 294, 61-72. | 0.8 | 7 |

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|---|---|---|---|
| 19 | Electrophysiological mechanisms of long and short QT syndromes. IJC Heart and Vasculature, 2017, 14, 8-13. | 1.1 | 50 |
| 20 | Mouse models of atherosclerosis: a historical perspective and recent advances. Lipids in Health and Disease, 2017, 16, 12. | 3.0 | 130 |
| 21 | Tachycardia-bradycardia syndrome: Electrophysiological mechanisms and future therapeutic approaches (Review). International Journal of Molecular Medicine, 2017, 39, 519-526. | 4.0 | 28 |
| 22 | Machine Learning of Human Pluripotent Stem Cell-Derived Engineered Cardiac Tissue Contractility for Automated Drug Classification. Stem Cell Reports, 2017, 9, 1560-1572. | 4.8 | 45 |
| 23 | AAV-mediated conversion of human pluripotent stem cell-derived pacemaker. Biochemical and Biophysical Research Communications, 2017, 494, 346-351. | 2.1 | 4 |
| 24 | An abnormal TRPV4-related cytosolic Ca2+ rise in response to uniaxial stretch in induced pluripotent stem cells-derived cardiomyocytes from dilated cardiomyopathy patients. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 2964-2972. | 3.8 | 17 |
| 25 | Effects of pharmacological gap junction and sodium channel blockade on S1S2 restitution properties in Langendorff-perfused mouse hearts. Oncotarget, 2017, 8, 85341-85352. | 1.8 | 7 |
| 26 | Electrophysiological Mechanisms of Brugada Syndrome: Insights from Pre-clinical and Clinical Studies. Frontiers in Physiology, 2016, 7, 467. | 2.8 | 39 |
| 27 | Genetic and Pharmacological Inhibition of Malonyl CoA Decarboxylase Does Not Exacerbate Age-Related Insulin Resistance in Mice. Diabetes, 2016, 65, 1883-1891. | 0.6 | 13 |
| 28 | Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers. Analytical Chemistry, 2016, 88, 10019-10027. | 6.5 | 181 |
| 29 | Non-cell autonomous cues for enhanced functionality of human embryonic stem cell-derived cardiomyocytes via maturation of sarcolemmal and mitochondrial KATP channels. Scientific Reports, 2016, 6, 34154. | 3.3 | 11 |
| 30 | Accumulation of ceramide in slowâ€twitch muscle contributes to the development of insulin resistance in the obese JCR:LAâ€cp rat. Experimental Physiology, 2015, 100, 730-741. | 2.0 | 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. Stem Cells International, 2015, 2015, 1-13. | 2.5 | 5 |
| 32 | Activating PPARÎ± Prevents Postâ€“Ischemic Contractile Dysfunction in Hypertrophied Neonatal Hearts. Circulation Research, 2015, 117, 41-51. | 4.5 | 60 |
| 33 | Proteomic Analysis of Human Pluripotent Stem Cellâ€“Derived, Fetal, and Adult Ventricular Cardiomyocytes Reveals Pathways Crucial for Cardiac Metabolism and Maturation. Circulation: Cardiovascular Genetics, 2015, 8, 427-436. | 5.1 | 61 |
| 34 | Phospholamban as a Crucial Determinant of the Inotropic Response of Human Pluripotent Stem Cellâ€“Derived Ventricular Cardiomyocytes and Engineered 3-Dimensional Tissue Constructs. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 193-202. | 4.8 | 33 |
| 35 | Treatment with the 3-Ketoacyl-CoA Thiolase Inhibitor Trimetazidine Does Not Exacerbate Whole-Body Insulin Resistance in Obese Mice. Journal of Pharmacology and Experimental Therapeutics, 2014, 349, 487-496. | 2.5 | 17 |
| 36 | Developmental cues for the maturation of metabolic, electrophysiological and calcium handling properties of human pluripotent stem cell-derived cardiomyocytes. Stem Cell Research and Therapy, 2014, 5, 17. | 5.5 | 67 |

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|---|---|---|---|
| 37 | A Simple, Cost-Effective but Highly Efficient System for Deriving Ventricular Cardiomyocytes from Human Pluripotent Stem Cells. Stem Cells and Development, 2014, 23, 1704-1716. | 2.1 | 105 |
| 38 | Trimetazidine Therapy Prevents Obesity-Induced Cardiomyopathy in Mice. Canadian Journal of Cardiology, 2014, 30, 940-944. | 1.7 | 26 |
| 39 | Inhibition of Carnitine Palmitoyltransferase-1 Activity Alleviates Insulin Resistance in Diet-Induced Obese Mice. Diabetes, 2013, 62, 711-720. | 0.6 | 98 |
| 40 | Effect of engineered anisotropy on the susceptibility of human pluripotent stem cell-derived ventricular cardiomyocytes to arrhythmias. Biomaterials, 2013, 34, 8878-8886. | 11.4 | 66 |
| 41 | Differential effects of central ghrelin on fatty acid metabolism in hypothalamic ventral medial and arcuate nuclei. Physiology and Behavior, 2013, 118, 165-170. | 2.1 | 36 |
| 42 | Epigenetic Regulation of the Electrophysiological Phenotype of Human Embryonic Stem Cell-Derived Ventricular Cardiomyocytes: Insights for Driven Maturation and Hypertrophic Growth. Stem Cells and Development, 2013, 22, 2678-2690. | 2.1 | 25 |
| 43 | Important role of ventromedial hypothalamic carnitine palmitoyltransferase-1a in the control of food intake. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E336-E347. | 3.5 | 11 |
| 44 | Transcriptome-Guided Functional Analyses Reveal Novel Biological Properties and Regulatory Hierarchy of Human Embryonic Stem Cell-Derived Ventricular Cardiomyocytes Crucial for Maturation. PLoS ONE, 2013, 8, e77784. | 2.5 | 35 |
| 45 | Inhibition of malonyl-CoA decarboxylase reduces the inflammatory response associated with insulin resistance. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1459-E1468. | 3.5 | 19 |
| 46 | Cardiac hypertrophy in the newborn delays the maturation of fatty acid Î²-oxidation and compromises postischemic functional recovery. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1784-H1794. | 3.2 | 15 |
| 47 | Glucagon and a glucagonâ€GLPâ€1 dualâ€agonist increases cardiac performance with different metabolic effects in insulinâ€resistant hearts. British Journal of Pharmacology, 2012, 165, 2736-2748. | 5.4 | 28 |
| 48 | Inhibition of Serine Palmitoyl Transferase I Reduces Cardiac Ceramide Levels and Increases Glycolysis Rates following Diet-Induced Insulin Resistance. PLoS ONE, 2012, 7, e37703. | 2.5 | 44 |
| 49 | Stimulation of glucose oxidation protects against acute myocardial infarction and reperfusion injury. Cardiovascular Research, 2012, 94, 359-369. | 3.8 | 154 |
| 50 | Non-genomic activation of adenylyl cyclase and protein kinase G by 17Î²-estradiol in vascular smooth muscle of the rat superior mesenteric artery. Pharmacological Research, 2011, 64, 509-516. | 7.1 | 23 |
| 51 | Intracerebroventricular Leptin Administration Differentially Alters Cardiac Energy Metabolism in Mice Fed a Low-fat and High-fat Diet. Journal of Cardiovascular Pharmacology, 2011, 57, 103-113. | 1.9 | 13 |
| 52 | Targeting fatty acid and carbohydrate oxidation â€" A novel therapeutic intervention in the ischemic and failing heart. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 1333-1350. | 4.1 | 298 |
| 53 | Circulating Sex Hormones Modulate Vascular Contractions and Acute Response to 17Î²-Estradiol in Rat Mesenteric Arteries. Pharmacology, 2011, 88, 55-64. | 2.2 | 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. Endocrinology, 2011, 152, 4127-4137. | 2.8 | 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. | 1.8 | 19 |
| 56 | Inhibition of De Novo Ceramide Synthesis Reverses Diet-Induced Insulin Resistance and Enhances Whole-Body Oxygen Consumption. Diabetes, 2010, 59, 2453-2464. | 0.6 | 296 |
| 57 | Isoproterenol stimulates 5â€²-AMP-activated protein kinase and fatty acid oxidation in neonatal hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1135-H1145. | 3.2 | 14 |
| 58 | Role of fatty acid uptake and fatty acid Î²-oxidation in mediating insulin resistance in heart and skeletal muscle. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 1-22. | 2.4 | 203 |
| 59 | Role of the atypical protein kinase CÎ¶ in regulation of 5â€²-AMP-activated protein kinase in cardiac and skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E349-E357. | 3.5 | 21 |
| 60 | Genistein potentiates protein kinase A activity in porcine coronary artery. Molecular and Cellular Biochemistry, 2008, 311, 37-44. | 3.1 | 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. | 1.9 | 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. | 3.2 | 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. | 7.1 | 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. | 1.9 | 21 |
| 65 | Î±-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. | 5.9 | 8 |
| 66 | Acute impairment of contractile responses by 17Î²â€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. | 5.4 | 28 |
| 67 | Nongenomic responses to 17Î²â€estradiol in male rat mesenteric arteries abolish intrinsic gender differences in vascular responses. British Journal of Pharmacology, 2005, 146, 1148-1155. | 5.4 | 17 |
| 68 | Phytoestrogens and Cardiovascular Disorders. Progress in Experimental Cardiology, 2004, , 513-524. | 0.0 | 0 |