

John P Konhilas

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

2,456
citations

201385

27
h-index

205818

48
g-index

102
all docs

102
docs citations

102
times ranked

3116
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Antagonism of the mu-delta opioid receptor heterodimer enhances opioid antinociception by activating Src and calcium/calmodulin-dependent protein kinase II signaling. <i>Pain</i> , 2022, 163, 146-158. | 2.0 | 11 |
| 2 | Glycosylated Ang-(1-7) MasR Agonist Peptide Poly Lactic-co-Glycolic Acid (PLGA) Nanoparticles and Microparticles in Cognitive Impairment: Design, Particle Preparation, Physicochemical Characterization, and In Vitro Release. <i>Pharmaceutics</i> , 2022, 14, 587. | 2.0 | 3 |
| 3 | Metformin: Experimental and Clinical Evidence for a Potential Role in Emphysema Treatment. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 651-666. | 2.5 | 49 |
| 4 | Antihypertensive drug treatment and susceptibility to SARS-CoV-2 infection in human PSC-derived cardiomyocytes and primary endothelial cells. <i>Stem Cell Reports</i> , 2021, 16, 2459-2472. | 2.3 | 11 |
| 5 | An adaptable and non-invasive method for tracking <i>Bifidobacterium animalis</i> subspecies <i>lactis</i> 420 in the mouse gut. <i>Journal of Microbiological Methods</i> , 2021, 189, 106302. | 0.7 | 1 |
| 6 | Serum Neurofilament Light is elevated in COVID-19 Positive Adults in the ICU and is associated with Co-Morbid Cardiovascular Disease, Neurological Complications, and Acuity of Illness. <i>Cardiology and Cardiovascular Medicine</i> , 2021, 05, 551-565. | 0.1 | 8 |
| 7 | Neurofilament light: a possible prognostic biomarker for treatment of vascular contributions to cognitive impairment and dementia. <i>Journal of Neuroinflammation</i> , 2021, 18, 236. | 3.1 | 7 |
| 8 | Abstract P481: Short-term Synbiotic, B420 And Oligofructose, Treatment Reverse High-fat-diet Related Pathologies In Ischemic Reperfusion Mouse Models. <i>Circulation Research</i> , 2021, 129, . | 2.0 | 0 |
| 9 | Abstract P366: The Impact Of Estrogen Signaling On Gut Epithelial Cells. <i>Circulation Research</i> , 2021, 129, . | 2.0 | 0 |
| 10 | Abstract P497: Myocardial Infarct Outcome And Weight Gain In Menopause Mice Are Mitigated During Probiotic Oligofructose Treatment. <i>Circulation Research</i> , 2021, 129, . | 2.0 | 0 |
| 11 | Using 4-vinylcyclohexene diepoxide as a model of menopause for cardiovascular disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H1461-H1473. | 1.5 | 8 |
| 12 | <i>Lactobacillus reuteri</i> attenuates cardiac injury without lowering cholesterol in low-density lipoprotein receptor-deficient mice fed standard chow. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H32-H41. | 1.5 | 15 |
| 13 | Path to precision: prevention of post-operative atrial fibrillation. <i>Journal of Thoracic Disease</i> , 2020, 12, 2735-2746. | 0.6 | 7 |
| 14 | A Novel Angiotensin-(1-7) Glycosylated Mas Receptor Agonist for Treating Vascular Cognitive Impairment and Inflammation-Related Memory Dysfunction. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 369, 9-25. | 1.3 | 47 |
| 15 | Fluid type influences acute hydration and muscle performance recovery in human subjects. <i>Journal of the International Society of Sports Nutrition</i> , 2019, 16, 15. | 1.7 | 16 |
| 16 | Remodeling Failing Human Myocardium With Hybrid Cell/Matrix and Transmyocardial Revascularization. <i>ASAIO Journal</i> , 2018, 64, e130-e133. | 0.9 | 4 |
| 17 | Cardiac-specific knockout of <i>Lmod2</i> results in a severe reduction in myofilament force production and rapid cardiac failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 122, 88-97. | 0.9 | 21 |
| 18 | Liquefaction of the Brain following Stroke Shares a Similar Molecular and Morphological Profile with Atherosclerosis and Mediates Secondary Neurodegeneration in an Osteopontin-Dependent Mechanism. <i>ENeuro</i> , 2018, 5, ENEURO.0076-18.2018. | 0.9 | 33 |

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|----|---|-----|-----------|
| 19 | AMPK and Estrogen-Dependent mechanisms underlying hypersensitivity to Cardiovascular Disease during menopause. <i>FASEB Journal</i> , 2018, 32, 517-8. | 0.2 | 0 |
| 20 | Abstract 559: AMP-Activated Protein Kinase And Estrogen-Dependent Mechanisms Underlying Increased Susceptibility To Cardiovascular Disease During Menopause. <i>Circulation Research</i> , 2018, 123, . | 2.0 | 0 |
| 21 | The clinical impact of estrogen loss on cardiovascular disease in menopausal females. <i>Medical Research Archives</i> , 2018, 6, . | 0.1 | 4 |
| 22 | Cognitive impairment in heart failure: A protective role for angiotensin-(1-7).. <i>Behavioral Neuroscience</i> , 2017, 131, 99-114. | 0.6 | 32 |
| 23 | Molecular Mechanisms Underlying Cardiac Adaptation to Exercise. <i>Cell Metabolism</i> , 2017, 25, 1012-1026. | 7.2 | 201 |
| 24 | <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> 420 mitigates the pathological impact of myocardial infarction in the mouse. <i>Beneficial Microbes</i> , 2017, 8, 257-269. | 1.0 | 28 |
| 25 | Cyclin D2 is a critical mediator of exercise-induced cardiac hypertrophy. <i>Experimental Biology and Medicine</i> , 2017, 242, 1820-1830. | 1.1 | 5 |
| 26 | Improved metabolism and redox state with a novel preservation solution: implications for donor lungs after cardiac death (DCD). <i>Pulmonary Circulation</i> , 2017, 7, 494-504. | 0.8 | 2 |
| 27 | A dual therapy of off-pump temporary left ventricular extracorporeal device and amniotic stem cell for cardiogenic shock. <i>Journal of Cardiothoracic Surgery</i> , 2017, 12, 80. | 0.4 | 2 |
| 28 | Abstract 267: Activation of Non-canonical Estrogen-dependent Pathways to Mitigate Pathological Cardiac Remodeling. <i>Circulation Research</i> , 2017, 121, . | 2.0 | 0 |
| 29 | Sex dimorphisms of crossbridge cycling kinetics in transgenic hypertrophic cardiomyopathy mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H125-H136. | 1.5 | 7 |
| 30 | 172. B-Type Natriuretic Peptide Gene Therapy as a Novel Early Treatment for Familial Hypertrophic Cardiomyopathy. <i>Molecular Therapy</i> , 2016, 24, S67. | 3.7 | 0 |
| 31 | The complex nature of oestrogen signalling in breast cancer: enemy or ally?. <i>Bioscience Reports</i> , 2016, 36, . | 1.1 | 30 |
| 32 | Liver Kinase B1 complex acts as a novel modifier of myofilament function and localizes to the Z-disk in cardiac myocytes. <i>Archives of Biochemistry and Biophysics</i> , 2016, 601, 32-41. | 1.4 | 2 |
| 33 | The impact of post-exercise hydration with deep-ocean mineral water on rehydration and exercise performance. <i>Journal of the International Society of Sports Nutrition</i> , 2016, 13, 17. | 1.7 | 17 |
| 34 | Human Amniotic Membrane Promotes Antimicrobial Microenvironment in a Device-Related Infection. <i>Journal of Biomedical Science and Engineering</i> , 2016, 09, 122-126. | 0.2 | 1 |
| 35 | Abstract 444: Probiotic Administration Mitigates the Detrimental Effects of Myocardial Infarction in Mice. <i>Circulation Research</i> , 2016, 119, . | 2.0 | 0 |
| 36 | Abstract 458: Novel Interactions With AMP-activated Protein Kinase Identified by Promiscuous Biotin Ligase Assay. <i>Circulation Research</i> , 2016, 119, . | 2.0 | 0 |

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|----|--|-----|-----------|
| 37 | Abstract 94: Menopausal Female Mice are Hypersensitive to Cardiovascular Disease. <i>Circulation Research</i> , 2016, 119, . | 2.0 | 0 |
| 38 | Abstract P601: Menopausal Female Mice are Hypersensitive to Pathological Cardiac Remodeling. <i>Hypertension</i> , 2016, 68, . | 1.3 | 0 |
| 39 | Oestrogen receptors interact with the α -catalytic subunit of AMP-activated protein kinase. <i>Bioscience Reports</i> , 2015, 35, . | 1.1 | 36 |
| 40 | AMP-Activated Protein Kinase Signalling in Cancer and Cardiac Hypertrophy. <i>Cardiovascular Pharmacology: Open Access</i> , 2015, 04, . | 0.1 | 9 |
| 41 | ANG II-induced hypertension in the VCD mouse model of menopause is prevented by estrogen replacement during perimenopause. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R1546-R1552. | 0.9 | 47 |
| 42 | Diet and sex modify exercise and cardiac adaptation in the mouse. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H135-H145. | 1.5 | 35 |
| 43 | Nebulin deficiency in adult muscle causes sarcomere defects and muscle-type-dependent changes in trophicity: novel insights in nemaline myopathy. <i>Human Molecular Genetics</i> , 2015, 24, 5219-5233. | 1.4 | 53 |
| 44 | LKB1/Mo25/STRAD Uniquely Impacts Sarcomeric Contractile Function and Posttranslational Modification. <i>Biophysical Journal</i> , 2015, 108, 1484-1494. | 0.2 | 13 |
| 45 | Rapid Porcine Lung Decellularization Using a Novel Organ Regenerative Control Acquisition Bioreactor. <i>ASAIO Journal</i> , 2015, 61, 71-77. | 0.9 | 17 |
| 46 | Abstract P618: Foxp3+ Regulatory T cell Depletion Eliminates Ang II-Induced Hypertension Resistance in Female Mice. <i>Hypertension</i> , 2015, 66, . | 1.3 | 0 |
| 47 | Menopause Impairs Cardiovascular Resilience and Blood Pressure Regulation. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 334. | 0.2 | 0 |
| 48 | Estradiol Activates AMPK through Interaction with Estrogen Receptor Beta. <i>Biophysical Journal</i> , 2014, 106, 595a. | 0.2 | 0 |
| 49 | First in Man: Adipose-derived Stromal Vascular Fraction Cells May Promote Restorative Cardiac Function. <i>American Journal of Medicine</i> , 2014, 127, e11-e12. | 0.6 | 9 |
| 50 | The Interaction of AMP-Activated Protein Kinase and its Upstream Activator, Lkb1/Mo25/Strad, Modifies Contractile Function in Rat Cardiac Trabeculae. <i>Biophysical Journal</i> , 2014, 106, 767a-768a. | 0.2 | 0 |
| 51 | LKB1 and MO25 Demonstrate Significant Interaction with Myofilament Proteins. <i>Biophysical Journal</i> , 2014, 106, 768a. | 0.2 | 0 |
| 52 | The R403Q Mutation Alters Isometric and Energetic Properties in 2 Month Mice. <i>Biophysical Journal</i> , 2014, 106, 561a. | 0.2 | 0 |
| 53 | A Method to Study the Impact of Chemically-induced Ovarian Failure on Exercise Capacity and Cardiac Adaptation in Mice. <i>Journal of Visualized Experiments</i> , 2014, , . | 0.2 | 6 |
| 54 | Estradiol activates AMPK through interaction with extrogen receptor beta (15.4). <i>FASEB Journal</i> , 2014, 28, 15.4. | 0.2 | 3 |

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|----|---|-----|-----------|
| 55 | The R403Q mutation alters isometric and energetic properties in 2 month mice (1081.1). FASEB Journal, 2014, 28, 1081.1. | 0.2 | 0 |
| 56 | The energy regulating upstream kinase complex LKB1/MO25/STRAD is a potential novel regulator of thin filament function (1081.3). FASEB Journal, 2014, 28, 1081.3. | 0.2 | 0 |
| 57 | Sexually dimorphic myofilament function and cardiac troponin I phosphospecies distribution in hypertrophic cardiomyopathy mice. Archives of Biochemistry and Biophysics, 2013, 535, 39-48. | 1.4 | 19 |
| 58 | Temporal and morphological impact of pressure overload in transgenic FHC mice. Frontiers in Physiology, 2013, 4, 205. | 1.3 | 8 |
| 59 | Phytoestrogens and the Role in Cardiovascular Health. , 2013, , 283-302. | | 0 |
| 60 | Probiotic Species on Cardiovascular Disease. , 2013, , 303-317. | | 2 |
| 61 | Postmenopausal response to angiotensin II-induced hypertension is blunted during perimenopause: a study in the accelerated ovarian failure (AOF) model of menopause. FASEB Journal, 2013, 27, 1112.3. | 0.2 | 0 |
| 62 | Abstract 227: Phosphorylation Patterning Determined by AMP-Activated Kinase, the LKB1/MO25/STRAD Complex, and Protein Phosphatase 1 Alters Contractile Function in Cardiac Rat Trabeculae. Circulation Research, 2013, 113, . | 2.0 | 0 |
| 63 | Abstract 345: R403Q Mutation Increases the Rate of Force Redevelopment in 2 Month Mice. Circulation Research, 2013, 113, . | 2.0 | 0 |
| 64 | Abstract 320: Roles of Estrogen, AMPK and Micro RNAs in the Progression of Cardiac Hypertrophy. Circulation Research, 2013, 113, . | 2.0 | 0 |
| 65 | Effects of chemically induced ovarian failure on voluntary wheel-running exercise and cardiac adaptation in mice. Comparative Medicine, 2013, 63, 233-43. | 0.4 | 9 |
| 66 | Estrogenic Compounds Are Not Always Cardioprotective and Can Be Lethal in Males with Genetic Heart Disease. Endocrinology, 2012, 153, 4470-4479. | 1.4 | 31 |
| 67 | Reduced Length-Dependent Activation in Human Cardiomyocytes Harboring the Troponin I Mutation R145W. Biophysical Journal, 2012, 102, 158a. | 0.2 | 0 |
| 68 | Target Specific Phosphorylation of Cardiac Troponin I and Sex Dimorphic Myofilament Function in R403Q Mice. Biophysical Journal, 2012, 102, 555a-556a. | 0.2 | 0 |
| 69 | Cardiac Troponin I Phosphorylation at ser149 by Protein Kinase A: A Potential Modulator of Myocardial Contractility. Biophysical Journal, 2012, 102, 358a. | 0.2 | 0 |
| 70 | Micro-RNA-195 and -451 Regulate the LKB1/AMPK Signaling Axis by Targeting MO25. PLoS ONE, 2012, 7, e41574. | 1.1 | 55 |
| 71 | Keeping the beat. Focus on "Enrichment of neonatal rat cardiomyocytes in primary culture facilitates long-term maintenance of contractility in vitro" American Journal of Physiology - Cell Physiology, 2012, 303, C1218-C1219. | 2.1 | 2 |
| 72 | Abstract 276: Cyclin D2 Is a Critical Mediator of Exercise-Induced Cardiac Hypertrophy. Circulation Research, 2012, 111, . | 2.0 | 0 |

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|----|--|-----|-----------|
| 73 | Inhibition of Ovarian KIT Phosphorylation by the Ovotoxicant 4-Vinylcyclohexene Diepoxide in Rats1. <i>Biology of Reproduction</i> , 2011, 85, 755-762. | 1.2 | 24 |
| 74 | Remodeling the cardiac transcriptional landscape with diet. <i>Physiological Genomics</i> , 2011, 43, 772-780. | 1.0 | 15 |
| 75 | Abstract P196: The Impact of MicroRNA195 on the Lkb1/AMPK Signaling Axis and Hypertrophic Cardiomyopathy. <i>Circulation Research</i> , 2011, 109, . | 2.0 | 0 |
| 76 | What We Know and Do Not Know about Sex and Cardiac Disease. <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-11. | 3.0 | 13 |
| 77 | Sex Dimorphic Myofilament Function and AMPK Expression in R403Q Hearts. <i>Biophysical Journal</i> , 2010, 98, 716a. | 0.2 | 0 |
| 78 | The Role of MEKK1 in Hypertrophic Cardiomyopathy. <i>International Heart Journal</i> , 2010, 51, 277-284. | 0.5 | 6 |
| 79 | Increased thermoregulation in cold-exposed transgenic mice overexpressing lipoprotein lipase in skeletal muscle: an avian phenotype?. <i>Journal of Lipid Research</i> , 2008, 49, 870-879. | 2.0 | 21 |
| 80 | What makes a dead cell attractive?. <i>Journal of Applied Physiology</i> , 2008, 104, 573-574. | 1.2 | 0 |
| 81 | The Effects of Biological Sex and Diet on the Development of Heart Failure. <i>Circulation</i> , 2007, 116, 2747-2759. | 1.6 | 65 |
| 82 | Restoration of CREB function is linked to completion and stabilization of adaptive cardiac hypertrophy in response to exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H246-H259. | 1.5 | 75 |
| 83 | Exercise Can Prevent and Reverse the Severity of Hypertrophic Cardiomyopathy. <i>Circulation Research</i> , 2006, 98, 540-548. | 2.0 | 168 |
| 84 | Partnering Up for Cardiac Hypertrophy. <i>Circulation Research</i> , 2006, 98, 985-987. | 2.0 | 4 |
| 85 | Soy diet worsens heart disease in mice. <i>Journal of Clinical Investigation</i> , 2005, 116, 209-216. | 3.9 | 76 |
| 86 | Loaded wheel running and muscle adaptation in the mouse. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H455-H465. | 1.5 | 83 |
| 87 | Sex modifies exercise and cardiac adaptation in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H2768-H2776. | 1.5 | 160 |
| 88 | Troponin I in the murine myocardium: influence on length-dependent activation and interfilament spacing. <i>Journal of Physiology</i> , 2003, 547, 951-961. | 1.3 | 127 |
| 89 | Myofilament Calcium Sensitivity in Skinned Rat Cardiac Trabeculae. <i>Circulation Research</i> , 2002, 90, 59-65. | 2.0 | 136 |
| 90 | Cooperative activation in cardiac muscle: impact of sarcomere length. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 282, H1055-H1062. | 1.5 | 107 |

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|----|--|-----|-----------|
| 91 | Tropomyosin 3 expression leads to hypercontractility and attenuates myofilament length-dependent Ca ²⁺ activation. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H1344-H1353. | 1.5 | 54 |
| 92 | Frank-Starling law of the heart and the cellular mechanisms of length-dependent activation. Pflugers Archiv European Journal of Physiology, 2002, 445, 305-310. | 1.3 | 89 |
| 93 | Length-dependent activation in three striated muscle types of the rat. Journal of Physiology, 2002, 544, 225-236. | 1.3 | 107 |
| 94 | From Sarcomeric Mutations to Heart Disease: Understanding Familial Hypertrophic Cardiomyopathy. Cold Spring Harbor Symposia on Quantitative Biology, 2002, 67, 409-416. | 2.0 | 10 |
| 95 | Expression of slow skeletal troponin I in adult transgenic mouse heart muscle reduces the force decline observed during acidic conditions. Journal of Physiology, 2001, 536, 863-870. | 1.3 | 70 |
| 96 | Myofilament lattice spacing as a function of sarcomere length in isolated rat myocardium. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H2568-H2573. | 1.5 | 117 |
| 97 | Regional pulmonary blood flow measurement in humans with electron-beam computed tomography. , 1995, 2433, 15. | | 0 |
| 98 | Myosin Myopathies. , 0, , 471-495. | | 0 |
| 99 | Inherited Cardiomyopathies: From Genotype to Phenotype. , 0, , . | | 0 |