

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	Molecular Mechanisms Underlying Cardiac Adaptation to Exercise. <i>Cell Metabolism</i> , 2017, 25, 1012-1026.	7.2	201
2	Exercise Can Prevent and Reverse the Severity of Hypertrophic Cardiomyopathy. <i>Circulation Research</i> , 2006, 98, 540-548.	2.0	168
3	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
4	Myofilament Calcium Sensitivity in Skinned Rat Cardiac Trabeculae. <i>Circulation Research</i> , 2002, 90, 59-65.	2.0	136
5	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
6	Myofilament lattice spacing as a function of sarcomere length in isolated rat myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H2568-H2573.	1.5	117
7	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
8	Length-dependent activation in three striated muscle types of the rat. <i>Journal of Physiology</i> , 2002, 544, 225-236.	1.3	107
9	Frank-Starling law of the heart and the cellular mechanisms of length-dependent activation. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 445, 305-310.	1.3	89
10	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
11	Soy diet worsens heart disease in mice. <i>Journal of Clinical Investigation</i> , 2005, 116, 209-216.	3.9	76
12	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
13	Expression of slow skeletal troponin I in adult transgenic mouse heart muscle reduces the force decline observed during acidic conditions. <i>Journal of Physiology</i> , 2001, 536, 863-870.	1.3	70
14	The Effects of Biological Sex and Diet on the Development of Heart Failure. <i>Circulation</i> , 2007, 116, 2747-2759.	1.6	65
15	Micro-RNA-195 and -451 Regulate the LKB1/AMPK Signaling Axis by Targeting MO25. <i>PLoS ONE</i> , 2012, 7, e41574.	1.1	55
16	Tropomyosin 3 expression leads to hypercontractility and attenuates myofilament length-dependent Ca ²⁺ activation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H1344-H1353.	1.5	54
17	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
18	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

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19	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
20	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
21	Oestrogen receptors interact with the $\hat{\alpha}$ -catalytic subunit of AMP-activated protein kinase. <i>Bioscience Reports</i> , 2015, 35, .	1.1	36
22	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
23	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
24	Cognitive impairment in heart failure: A protective role for angiotensin-(1-7).. <i>Behavioral Neuroscience</i> , 2017, 131, 99-114.	0.6	32
25	Estrogenic Compounds Are Not Always Cardioprotective and Can Be Lethal in Males with Genetic Heart Disease. <i>Endocrinology</i> , 2012, 153, 4470-4479.	1.4	31
26	The complex nature of oestrogen signalling in breast cancer: enemy or ally?. <i>Bioscience Reports</i> , 2016, 36, .	1.1	30
27	<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
28	Inhibition of Ovarian KIT Phosphorylation by the Ovotoxicant 4-Vinylcyclohexene Diepoxide in Rats ¹ . <i>Biology of Reproduction</i> , 2011, 85, 755-762.	1.2	24
29	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
30	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
31	Sexually dimorphic myofilament function and cardiac troponin I phosphospecies distribution in hypertrophic cardiomyopathy mice. <i>Archives of Biochemistry and Biophysics</i> , 2013, 535, 39-48.	1.4	19
32	Rapid Porcine Lung Decellularization Using a Novel Organ Regenerative Control Acquisition Bioreactor. <i>ASAIO Journal</i> , 2015, 61, 71-77.	0.9	17
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	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
35	Remodeling the cardiac transcriptional landscape with diet. <i>Physiological Genomics</i> , 2011, 43, 772-780.	1.0	15
36	<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

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37	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
38	LKB1/Mo25/STRAD Uniquely Impacts Sarcomeric Contractile Function and Posttranslational Modification. <i>Biophysical Journal</i> , 2015, 108, 1484-1494.	0.2	13
39	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
40	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
41	From Sarcomeric Mutations to Heart Disease: Understanding Familial Hypertrophic Cardiomyopathy. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2002, 67, 409-416.	2.0	10
42	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
43	AMP-Activated Protein Kinase Signalling in Cancer and Cardiac Hypertrophy. <i>Cardiovascular Pharmacology: Open Access</i> , 2015, 04, .	0.1	9
44	Effects of chemically induced ovarian failure on voluntary wheel-running exercise and cardiac adaptation in mice. <i>Comparative Medicine</i> , 2013, 63, 233-43.	0.4	9
45	Temporal and morphological impact of pressure overload in transgenic FHC mice. <i>Frontiers in Physiology</i> , 2013, 4, 205.	1.3	8
46	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
47	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
48	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
49	Path to precision: prevention of post-operative atrial fibrillation. <i>Journal of Thoracic Disease</i> , 2020, 12, 2735-2746.	0.6	7
50	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
51	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
52	The Role of MEKK1 in Hypertrophic Cardiomyopathy. <i>International Heart Journal</i> , 2010, 51, 277-284.	0.5	6
53	Cyclin D2 is a critical mediator of exercise-induced cardiac hypertrophy. <i>Experimental Biology and Medicine</i> , 2017, 242, 1820-1830.	1.1	5
54	Partnering Up for Cardiac Hypertrophy. <i>Circulation Research</i> , 2006, 98, 985-987.	2.0	4

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55	Remodeling Failing Human Myocardium With Hybrid Cell/Matrix and Transmyocardial Revascularization. <i>ASAIO Journal</i> , 2018, 64, e130-e133.	0.9	4
56	The clinical impact of estrogen loss on cardiovascular disease in menopausal females. <i>Medical Research Archives</i> , 2018, 6, .	0.1	4
57	Estradiol activates AMPK through interaction with estrogen receptor beta (15.4). <i>FASEB Journal</i> , 2014, 28, 15.4.	0.2	3
58	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
59	Keeping the beat. Focus on "Enrichment of neonatal rat cardiomyocytes in primary culture facilitates long-term maintenance of contractility in vitro" <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C1218-C1219.	2.1	2
60	Probiotic Species on Cardiovascular Disease. , 2013, , 303-317.		2
61	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
62	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
63	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
64	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
65	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
66	Regional pulmonary blood flow measurement in humans with electron-beam computed tomography. , 1995, 2433, 15.		0
67	Myosin Myopathies. , 0, , 471-495.		0
68	What makes a dead cell attractive?. <i>Journal of Applied Physiology</i> , 2008, 104, 573-574.	1.2	0
69	Sex Dimorphic Myofilament Function and AMPK Expression in R403Q Hearts. <i>Biophysical Journal</i> , 2010, 98, 716a.	0.2	0
70	Reduced Length-Dependent Activation in Human Cardiomyocytes Harboring the Troponin I Mutation R145W. <i>Biophysical Journal</i> , 2012, 102, 158a.	0.2	0
71	Target Specific Phosphorylation of Cardiac Troponin I and Sex Dimorphic Myofilament Function in R403Q Mice. <i>Biophysical Journal</i> , 2012, 102, 555a-556a.	0.2	0
72	Cardiac Troponin I Phosphorylation at ser149 by Protein Kinase A: A Potential Modulator of Myocardial Contractility. <i>Biophysical Journal</i> , 2012, 102, 358a.	0.2	0

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73	Phytoestrogens and the Role in Cardiovascular Health. , 2013, , 283-302.		0
74	Menopause Impairs Cardiovascular Resilience and Blood Pressure Regulation. Medicine and Science in Sports and Exercise, 2014, 46, 334.	0.2	0
75	Estradiol Activates AMPK through Interaction with Estrogen Receptor Beta. Biophysical Journal, 2014, 106, 595a.	0.2	0
76	The Interaction of AMP-Activated Protein Kinase and its Upstream Activator, Lkb1/Mo25/Strad, Modifies Contractile Function in Rat Cardiac Trabeculae. Biophysical Journal, 2014, 106, 767a-768a.	0.2	0
77	LKB1 and MO25 Demonstrate Significant Interaction with Myofilament Proteins. Biophysical Journal, 2014, 106, 768a.	0.2	0
78	The R403Q Mutation Alters Isometric and Energetic Properties in 2 Month Mice. Biophysical Journal, 2014, 106, 561a.	0.2	0
79	172. B-Type Natriuretic Peptide Gene Therapy as a Novel Early Treatment for Familial Hypertrophic Cardiomyopathy. Molecular Therapy, 2016, 24, S67.	3.7	0
80	Inherited Cardiomyopathies: From Genotype to Phenotype. , 0, .		0
81	Abstract P196: The Impact of MicroRNA195 on the Lkb1/AMPK Signaling Axis and Hypertrophic Cardiomyopathy. Circulation Research, 2011, 109, .	2.0	0
82	Abstract 276: Cyclin D2 Is a Critical Mediator of Exercise-Induced Cardiac Hypertrophy. Circulation Research, 2012, 111, .	2.0	0
83	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
84	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
85	Abstract 345: R403Q Mutation Increases the Rate of Force Redevelopment in 2 Month Mice. Circulation Research, 2013, 113, .	2.0	0
86	Abstract 320: Roles of Estrogen, AMPK and Micro RNAs in the Progression of Cardiac Hypertrophy. Circulation Research, 2013, 113, .	2.0	0
87	The R403Q mutation alters isometric and energetic properties in 2 month mice (1081.1). FASEB Journal, 2014, 28, 1081.1.	0.2	0
88	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
89	Abstract P618: Foxp3+ Regulatory T cell Depletion Eliminates Ang II-Induced Hypertension Resistance in Female Mice. Hypertension, 2015, 66, .	1.3	0
90	Abstract 444: Probiotic Administration Mitigates the Detrimental Effects of Myocardial Infarction in Mice. Circulation Research, 2016, 119, .	2.0	0

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91	Abstract 458: Novel Interactions With AMP-activated Protein Kinase Identified by Promiscuous Biotin Ligase Assay. Circulation Research, 2016, 119, .	2.0	0
92	Abstract 94: Menopausal Female Mice are Hypersensitive to Cardiovascular Disease. Circulation Research, 2016, 119, .	2.0	0
93	Abstract P601: Menopausal Female Mice are Hypersensitive to Pathological Cardiac Remodeling. Hypertension, 2016, 68, .	1.3	0
94	AMPK and Estrogen-Dependent mechanisms underlying hypersensitivity to Cardiovascular Disease during menopause. FASEB Journal, 2018, 32, 517.8.	0.2	0
95	Abstract 559: AMP-Activated Protein Kinase And Estrogen-Dependent Mechanisms Underlying Increased Susceptibility To Cardiovascular Disease During Menopause. Circulation Research, 2018, 123, .	2.0	0
96	Abstract P481: Short-term Synbiotic, B420 And Oligofructose, Treatment Reverse High-fat-diet Related Pathologies In Ischemic Reperfusion Mouse Models. Circulation Research, 2021, 129, .	2.0	0
97	Abstract P366: The Impact Of Estrogen Signaling On Gut Epithelial Cells. Circulation Research, 2021, 129, .	2.0	0
98	Abstract P497: Myocardial Infarct Outcome And Weight Gain In Menopause Mice Are Mitigated During Probiotic Oligofructose Treatment. Circulation Research, 2021, 129, .	2.0	0
99	Abstract 267: Activation of Non-canonical Estrogen-dependent Pathways to Mitigate Pathological Cardiac Remodeling. Circulation Research, 2017, 121, .	2.0	0