

Irving H Zucker

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105 papers	1,832 citations	24 h-index	42 g-index
123 ext. papers	2,145 ext. citations	3.6 avg, IF	5.14 L-index

#	Paper	IF	Citations
105	Novel mechanisms of sympathetic regulation in chronic heart failure. <i>Hypertension</i> , 2006 , 48, 1005-11	8.5	142
104	Cardiac sympathetic afferent denervation attenuates cardiac remodeling and improves cardiovascular dysfunction in rats with heart failure. <i>Hypertension</i> , 2014 , 64, 745-55	8.5	121
103	Exercise training normalizes sympathetic outflow by central antioxidant mechanisms in rabbits with pacing-induced chronic heart failure. <i>Circulation</i> , 2007 , 115, 3095-102	16.7	117
102	Chronic baroreceptor activation enhances survival in dogs with pacing-induced heart failure. <i>Hypertension</i> , 2007 , 50, 904-10	8.5	114
101	The origin of sympathetic outflow in heart failure: the roles of angiotensin II and nitric oxide. <i>Progress in Biophysics and Molecular Biology</i> , 2004 , 84, 217-32	4.7	109
100	Imbalance of angiotensin type 1 receptor and angiotensin II type 2 receptor in the rostral ventrolateral medulla: potential mechanism for sympathetic overactivity in heart failure. <i>Hypertension</i> , 2008 , 52, 708-14	8.5	96
99	The central renin-angiotensin system and sympathetic nerve activity in chronic heart failure. <i>Clinical Science</i> , 2014 , 126, 695-706	6.5	89
98	Neurohumoral stimulation. <i>Heart Failure Clinics</i> , 2012 , 8, 87-99	3.3	81
97	Myocardial infarction-induced microRNA-enriched exosomes contribute to cardiac Nrf2 dysregulation in chronic heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H928-H939	5.2	78
96	Regulation of sympathetic nerve activity in heart failure: a role for nitric oxide and angiotensin II. <i>Circulation Research</i> , 1999 , 84, 417-23	15.7	78
95	The Regulation of Sympathetic Outflow in Heart Failure. <i>Annals of the New York Academy of Sciences</i> , 2006 , 940, 431-443	6.5	67
94	Angiotensin II blockade [corrected] enhances baroreflex control of sympathetic outflow in heart failure. <i>Hypertension</i> , 1997 , 29, 564-9	8.5	54
93	Exercise training and sympathetic regulation in experimental heart failure. <i>Exercise and Sport Sciences Reviews</i> , 2004 , 32, 107-11	6.7	51
92	Activation of central angiotensin type 2 receptors by compound 21 improves arterial baroreflex sensitivity in rats with heart failure. <i>American Journal of Hypertension</i> , 2014 , 27, 1248-56	2.3	43
91	Central gain of the cardiac sympathetic afferent reflex in dogs with heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997 , 273, H2664-71	5.2	41
90	Selective Gene Deletion in the Rostral Ventrolateral Medulla Evokes Hypertension and Sympathoexcitation in Mice. <i>Hypertension</i> , 2017 , 69, 1198-1206	8.5	39
89	Cardiac sympathetic afferent reflex control of cardiac function in normal and chronic heart failure states. <i>Journal of Physiology</i> , 2017 , 595, 2519-2534	3.9	33

88	Central mechanisms for exercise training-induced reduction in sympatho-excitation in chronic heart failure. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2015 , 188, 44-50	2.4	33
87	Modulation of angiotensin II signaling following exercise training in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H781-91	5.2	30
86	Therapeutic Effects of Nrf2 Activation by Bardoxolone Methyl in Chronic Heart Failure. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019 , 371, 642-651	4.7	29
85	Integrative Physiological Aspects of Brain RAS in Hypertension. <i>Current Hypertension Reports</i> , 2018 , 20, 10	4.7	28
84	Angiotensin II--nitric oxide interactions in the control of sympathetic outflow in heart failure. <i>Heart Failure Reviews</i> , 2000 , 5, 27-43	5	28
83	Guidelines for animal exercise and training protocols for cardiovascular studies. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 318, H1100-H1138	5.2	27
82	Novel mechanisms of sympatho-excitation in chronic heart failure. <i>Heart Failure Monitor</i> , 2002 , 3, 2-7		26
81	Curcumin improves exercise performance of mice with coronary artery ligation-induced HFrEF: Nrf2 and antioxidant mechanisms in skeletal muscle. <i>Journal of Applied Physiology</i> , 2019 , 126, 477-486	3.7	23
80	Central Angiotensin-II Increases Blood Pressure and Sympathetic Outflow via Rho Kinase Activation in Conscious Rabbits. <i>Hypertension</i> , 2016 , 68, 1271-1280	8.5	19
79	Upregulating Nrf2 in the RVLM ameliorates sympatho-excitation in mice with chronic heart failure. <i>Free Radical Biology and Medicine</i> , 2019 , 141, 84-92	7.8	17
78	Extracellular vesicular MicroRNA-27a* contributes to cardiac hypertrophy in chronic heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2020 , 143, 120-131	5.8	17
77	Influence of brain-derived neurotrophic factor-tyrosine receptor kinase B signalling in the nucleus tractus solitarius on baroreflex sensitivity in rats with chronic heart failure. <i>Journal of Physiology</i> , 2016 , 594, 5711-25	3.9	16
76	Exercise training attenuates chemoreflex-mediated reductions of renal blood flow in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H259-66	5.2	15
75	BDNF contributes to angiotensin II-mediated reductions in peak voltage-gated K ⁺ current in cultured CATH.a cells. <i>Physiological Reports</i> , 2015 , 3, e12598	2.6	14
74	Exercise training upregulates Nrf2 protein in the rostral ventrolateral medulla of mice with heart failure. <i>Journal of Applied Physiology</i> , 2019 , 127, 1349-1359	3.7	12
73	Functional, proteomic and bioinformatic analyses of Nrf2- and Keap1- null skeletal muscle. <i>Journal of Physiology</i> , 2020 , 598, 5427-5451	3.9	11
72	Regulation of Nrf2 signaling pathway in heart failure: Role of extracellular vesicles and non-coding RNAs. <i>Free Radical Biology and Medicine</i> , 2021 , 167, 218-231	7.8	11
71	Sympatho-excitatory response to pulmonary chemosensitive spinal afferent activation in anesthetized, vagotomized rats. <i>Physiological Reports</i> , 2018 , 6, e13742	2.6	10

70	Horizontal gene transfer from macrophages to ischemic muscles upon delivery of naked DNA with Pluronic block copolymers. <i>Biomaterials</i> , 2016 , 75, 58-70	15.6	9
69	Central TrkB blockade attenuates ICV angiotensin II-hypertension and sympathetic nerve activity in male Sprague-Dawley rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2017 , 205, 77-86	2.4	8
68	Eppur Si Muove: The dynamic nature of physiological control of renal blood flow by the renal sympathetic nerves. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2017 , 204, 17-24	2.4	8
67	Benefits of exercise training on cardiovascular dysfunction: molecular and integrative. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H1027-H1031	5.2	7
66	TRPV1 (Transient Receptor Potential Vanilloid 1) Cardiac Spinal Afferents Contribute to Hypertension in Spontaneous Hypertensive Rat. <i>Hypertension</i> , 2019 , 74, 910-920	8.5	7
65	Neural control of the circulation in heart failure and coronary ischaemia: introduction. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1996 , 23, 685-7	3	7
64	Identification of Cardiac Expression Pattern of Transient Receptor Potential Vanilloid Type 1 (TRPV1) Receptor using a Transgenic Reporter Mouse Model. <i>Neuroscience Letters</i> , 2020 , 737, 135320	3.3	7
63	Disruption of cardiovascular circadian rhythms in mice post myocardial infarction: relationship with central angiotensin II receptor expression. <i>Physiological Reports</i> , 2014 , 2, e12210	2.6	6
62	A day of immersive physiology experiments increases knowledge and excitement towards physiology and scientific careers in Native American students. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2017 , 41, 137-144	1.9	5
61	Glutamatergic receptor dysfunction in spinal cord contributes to the exaggerated exercise pressor reflex in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H447-55	5.2	5
60	Overexpression of Central ACE2 (Angiotensin-Converting Enzyme 2) Attenuates the Pressor Response to Chronic Central Infusion of Ang II (Angiotensin II): A Potential Role for Nrf2 (Nuclear Factor [Erythroid-Derived 2]-Like 2). <i>Hypertension</i> , 2020 , 76, 1514-1525	8.5	5
59	Sympathoexcitation in response to cardiac and pulmonary afferent stimulation of TRPA1 channels is attenuated in rats with chronic heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 316, H862-H872	5.2	4
58	Renal nerves dynamically regulate renal blood flow in conscious, healthy rabbits. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 310, R156-66	3.2	4
57	Exercise training normalizes renal blood flow responses to acute hypoxia in experimental heart failure: role of the α -adrenergic receptor. <i>Journal of Applied Physiology</i> , 2016 , 120, 334-43	3.7	4
56	The American Journal of Physiology-Heart and Circulatory Physiology: a long history, a bright future. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H1103-4	5.2	3
55	Quantification of Renal Sympathetic Vasomotion as a Novel End Point for Renal Denervation. <i>Hypertension</i> , 2020 , 76, 1247-1255	8.5	3
54	Research Opportunities in Autonomic Neural Mechanisms of Cardiopulmonary Regulation: A Report From the National Heart, Lung, and Blood Institute and The National Institutes of Health Office of the Director Workshop.. <i>JACC Basic To Translational Science</i> , 2022 , 7, 265-293	8.7	2
53	Sympathoexcitation in chronic heart failure: Ang II induced inhibition of voltage-gated K ⁺ channel, an in vivo and in vitro study. <i>FASEB Journal</i> , 2006 , 20,	0.9	2

52	Therapeutic microRNA-based strategies in cardiovascular disease discriminate sex and age difference. <i>Journal of Physiology</i> , 2016 , 594, 5731-5732	3.9	1
51	Safety and efficacy of renal denervation in patients with heart failure with reduced ejection fraction (HFrEF): A systematic review and meta-analysis.. <i>Heliyon</i> , 2022 , 8, e08847	3.6	1
50	Exercise training and renal denervation attenuate the expression of angiotensin II Type 1 and 2 receptors in rabbits with chronic heart failure. <i>FASEB Journal</i> , 2008 , 22, 159-159	0.9	1
49	Proteomic and Functional Analyses of Keap1-Nrf2 Pathway in Skeletal Muscle. <i>FASEB Journal</i> , 2019 , 33, 868.30	0.9	1
48	Exercise training normalizes ACE and ACE2 in the brain of rabbits with pacing induced chronic heart failure. <i>FASEB Journal</i> , 2009 , 23, 958.1	0.9	1
47	Macrophage activation in stellate ganglia contributes to lung injury-induced arrhythmogenesis in male rats. <i>Acta Physiologica</i> , 2021 , 232, e13657	5.6	1
46	Skeletal Muscle Nrf2 Contributes to Exercise-Evoked Systemic Antioxidant Defense Via Extracellular Vesicular Communication. <i>Exercise and Sport Sciences Reviews</i> , 2021 , 49, 213-222	6.7	1
45	CORP: Assessing author compliance with data presentation guidelines for manuscript figures. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 318, H1051-H1058	5.2	0
44	Timeline of Multi-Organ Plasma Extravasation After Bleomycin-Induced Acute Lung Injury.. <i>Frontiers in Physiology</i> , 2022 , 13, 777072	4.6	0
43	Bardoxolone activates cardiac Nrf2, increases antioxidant expression and lowers arterial pressure in rats with heart failure. <i>FASEB Journal</i> , 2018 , 32, 903.11	0.9	0
42	Sympathomodulation in heart failure: A role for stellate ganglia Nrf2. <i>FASEB Journal</i> , 2019 , 33, 564.5	0.9	0
41	The Nasopharyngeal Reflex is Impaired with the Progression of Chronic Heart Failure in Conscious Rabbits. <i>FASEB Journal</i> , 2006 , 20, A1203	0.9	
40	Effect of exercise training on skeletal muscle pressor reflexes in chronic heart failure rats. <i>FASEB Journal</i> , 2006 , 20, A1196	0.9	
39	Heart Rate Variability and Central Angiotensin II Receptors in Heart Failure: Role of Exercise Training. <i>FASEB Journal</i> , 2006 , 20, A393	0.9	
38	Simvastatin Upregulates the Expression of nNOS and eNOS in Neuronal Cells. <i>FASEB Journal</i> , 2007 , 21, A1267	0.9	
37	Central treatment of simvastatin normalizes sympathetic outflow in CHF rabbits by a nNOS mechanism. <i>FASEB Journal</i> , 2007 , 21, A1267	0.9	
36	Angiotensin II induces AT1 receptor upregulation by oxidative stress and activation of AP1 and NF- κ B in two neuronal cell lines. <i>FASEB Journal</i> , 2007 , 21, A889	0.9	
35	Skeletal muscle superoxide is involved in the enhanced exercise pressor reflex in heart failure rats. <i>FASEB Journal</i> , 2007 , 21, A570	0.9	

- 34 Role of ErbB tyrosine kinase receptors in aging-related cardiac dysfunction. *FASEB Journal*, **2008**, 22, 1155.2 0.9
- 33 Exercise training improves the exercise pressor reflex dysfunction via ameliorating the skeletal muscle oxidative stress in chronic heart failure. *FASEB Journal*, **2008**, 22, 952.8 0.9
- 32 Exercise training normalizes ACE and ACE2 in the brain of rabbits with pacing induced chronic heart failure. *FASEB Journal*, **2008**, 22, 952.7 0.9
- 31 Increased neuronal discharge in the RVLM of rats with chronic heart failure is mediated by AT1R. *FASEB Journal*, **2008**, 22, 1169.3 0.9
- 30 Overexpression of Nrf2 Targeting Glutamatergic Neurons in the RVLM Ameliorates Sympathetic Regulation in Mice With Chronic Heart Failure. *FASEB Journal*, **2018**, 32, 593.3 0.9
- 29 Exosomal MicroRNA-27a Passenger Strand Was Upregulated in Chronic Heart Failure. *FASEB Journal*, **2018**, 32, 903.7 0.9
- 28 Superoxide-Dependent Redox Signaling in the Supraoptic Nucleus Is Associated with the Neuroendocrine Response to Water and Electrolyte Imbalance. *FASEB Journal*, **2018**, 32, 763.1 0.9
- 27 TRPA1-Induced Pulmonary Spinal Sympathetic Afferent Activation is Attenuated in Rats with Chronic Heart Failure. *FASEB Journal*, **2018**, 32, 593.1 0.9
- 26 Thoracic TRPV1 Receptor Spinal Afferent Ablation Prevents the Development and Progression of Hypertension in SHR but Not in Ang II-infused Rats. *FASEB Journal*, **2018**, 32, 885.4 0.9
- 25 Muscle Sensory Dysfunction in a Rat Model of Peripheral Arterial Disease: the Role of Macrophage Activation in Chronic Limb Pain. *FASEB Journal*, **2019**, 33, 540.5 0.9
- 24 Renal Denervation Increases Renal Blood Flow Variability in Conscious Rabbits. *FASEB Journal*, **2015**, 29, 658.6 0.9
- 23 Potassium Channel Dysfunction in Dorsal Root Ganglia Contributes to the Exaggerated Exercise Pressor Reflex in Heart Failure. *FASEB Journal*, **2015**, 29, 827.1 0.9
- 22 Angiotensin II induces upregulation of AT1 receptors via the sequential activation of transcription factors NFkB, Elk-1 and AP-1 in Cath.a cells. *FASEB Journal*, **2009**, 23, 609.15 0.9
- 21 Selective over expression of central ACE2 prevents baroreflex dysfunction in the chronic heart failure. *FASEB Journal*, **2009**, 23, 610.2 0.9
- 20 Skeletal Muscle Overexpression of SOD Normalizes the Exaggerated Exercise Pressor Reflex in Rats with Heart Failure. *FASEB Journal*, **2009**, 23, 787.13 0.9
- 19 Central angiotensin type 2 receptor stimulation reduces blood pressure and norepinephrine excretion in conscious normal rats. *FASEB Journal*, **2010**, 24, 808.6 0.9
- 18 p22phox inhibition in Skeletal Muscle Normalizes the Exaggerated Exercise Pressor Reflex in Chronic Heart Failure. *FASEB Journal*, **2010**, 24, 619.1 0.9
- 17 Central angiotensin-converting enzyme 2 overexpression decreases blood pressure and enhances baroreflex function in mice with chronic heart failure. *FASEB Journal*, **2010**, 24, 809.20 0.9

16	Intrarenal superoxide dismutase normalizes renal vascular resistance in rabbits with pacing induced heart failure. <i>FASEB Journal</i> , 2010 , 24, lb710	0.9
15	Alteration in Skeletal Muscle Afferents in Rats with Chronic Heart Failure. <i>FASEB Journal</i> , 2011 , 25, 1054d19	0.9
14	Mas receptor in the RVLM mediates sympatho-inhibitory effect in mice with ACE2 overexpression during heart failure. <i>FASEB Journal</i> , 2012 , 26, lb797	0.9
13	Spinal Cord GABA Receptors Inhibit the Exercise Pressor Reflex in Decerebrate Rats. <i>FASEB Journal</i> , 2012 , 26, 1087.6	0.9
12	Simvastatin Treatment Attenuates Increased Respiratory Variability and Apnea/Hypopnea Index in Rats with Congestive Heart Failure. <i>FASEB Journal</i> , 2012 , 26, lb829	0.9
11	Blunted Arterial Baroreflex Sensitivity: A Contributor to Hypertension in Angiotensin Type 2 Receptor Knockout Mice. <i>FASEB Journal</i> , 2012 , 26, 893.7	0.9
10	Rho Kinase Inhibition Lowers Sympathetic Nerve Activity in Conscious Rabbits with Chronic Heart Failure. <i>FASEB Journal</i> , 2012 , 26, 703.7	0.9
9	Differential adrenergic signaling in the regulation of renal blood flow in rats with heart failure. <i>FASEB Journal</i> , 2012 , 26, 1101.7	0.9
8	Imbalance of Angiotensin Receptor Expression and Function in the Spinal Cord: Potential Mechanism of Sympathetic Overactivity in CHF Rats. <i>FASEB Journal</i> , 2012 , 26, 893.10	0.9
7	Nonclassical G Protein Coupled Receptor Kinase 5 Regulation of Angiotensin II type 1 Receptor in CATH.a Neurons. <i>FASEB Journal</i> , 2012 , 26, 703.9	0.9
6	Interaction between angiotensin II (AngII) and brain-derived neurotrophic factor (BDNF) in modulating K ⁺ currents. <i>FASEB Journal</i> , 2013 , 27, lb834	0.9
5	The Exaggerated Exercise Pressor Reflex in Heart Failure: MAPK Activation in Peripheral Dorsal Root Ganglia. <i>FASEB Journal</i> , 2013 , 27, 1118.9	0.9
4	Unilateral renal denervation (DNx) improves autonomic balance in conscious rabbits with chronic heart failure (CHF). <i>FASEB Journal</i> , 2013 , 27, 927.16	0.9
3	Central Rho kinase inhibition improves baroreflex gain and cardiac autonomic balance in conscious rabbits with CHF. <i>FASEB Journal</i> , 2013 , 27, lb843	0.9
2	Cross-talk between central ACE/ACE2 and RhoA/ROCKII Pathways in Chronic Heart Failure.. <i>FASEB Journal</i> , 2013 , 27, lb839	0.9
1	Data on macrophage mediated muscle transfection upon delivery of naked plasmid DNA with block copolymers. <i>Data in Brief</i> , 2016 , 7, 1269-82	1.2