

# Irving H Zucker

## List of Publications by Year in descending order

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121  
papers

2,410  
citations

218381

26  
h-index

214527

47  
g-index

123  
all docs

123  
docs citations

123  
times ranked

2586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiac Sympathetic Afferent Denervation Attenuates Cardiac Remodeling and Improves Cardiovascular Dysfunction in Rats With Heart Failure. <i>Hypertension</i> , 2014, 64, 745-755.	1.3	158
2	Novel Mechanisms of Sympathetic Regulation in Chronic Heart Failure. <i>Hypertension</i> , 2006, 48, 1005-1011.	1.3	156
3	Chronic Baroreceptor Activation Enhances Survival in Dogs With Pacing-Induced Heart Failure. <i>Hypertension</i> , 2007, 50, 904-910.	1.3	132
4	Exercise Training Normalizes Sympathetic Outflow by Central Antioxidant Mechanisms in Rabbits With Pacing-Induced Chronic Heart Failure. <i>Circulation</i> , 2007, 115, 3095-3102.	1.6	130
5	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, 217-232.	1.4	128
6	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.	1.5	111
7	Imbalance of Angiotensin Type 1 Receptor and Angiotensin II Type 2 Receptor in the Rostral Ventrolateral Medulla. <i>Hypertension</i> , 2008, 52, 708-714.	1.3	106
8	The central renin-angiotensin system and sympathetic nerve activity in chronic heart failure. <i>Clinical Science</i> , 2014, 126, 695-706.	1.8	105
9	Neurohumoral Stimulation. <i>Heart Failure Clinics</i> , 2012, 8, 87-99.	1.0	95
10	Regulation of Sympathetic Nerve Activity in Heart Failure. <i>Circulation Research</i> , 1999, 84, 417-423.	2.0	80
11	The Regulation of Sympathetic Outflow in Heart Failure. <i>Annals of the New York Academy of Sciences</i> , 2001, 940, 431-443.	1.8	76
12	Guidelines for animal exercise and training protocols for cardiovascular studies. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H1100-H1138.	1.5	66
13	Angiotensin II Enhances Baroreflex Control of Sympathetic Outflow in Heart Failure. <i>Hypertension</i> , 1997, 29, 564-569.	1.3	60
14	Exercise Training and Sympathetic Regulation in Experimental Heart Failure. <i>Exercise and Sport Sciences Reviews</i> , 2004, 32, 107-111.	1.6	57
15	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-H2671.	1.5	53
16	Selective Nrf2 Gene Deletion in the Rostral Ventrolateral Medulla Evokes Hypertension and Sympathoexcitation in Mice. <i>Hypertension</i> , 2017, 69, 1198-1206.	1.3	52
17	Cardiac sympathetic afferent reflex control of cardiac function in normal and chronic heart failure states. <i>Journal of Physiology</i> , 2017, 595, 2519-2534.	1.3	50
18	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, 1248-1256.	1.0	45

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19	Extracellular vesicular MicroRNA-27a* contributes to cardiac hypertrophy in chronic heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 143, 120-131.	0.9	44
20	Integrative Physiological Aspects of Brain RAS in Hypertension. <i>Current Hypertension Reports</i> , 2018, 20, 10.	1.5	41
21	Therapeutic Effects of Nrf2 Activation by Bardoxolone Methyl in Chronic Heart Failure. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 371, 642-651.	1.3	41
22	Modulation of angiotensin II signaling following exercise training in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H781-H791.	1.5	38
23	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.	1.4	35
24	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.	1.2	35
25	Functional, proteomic and bioinformatic analyses of Nrf2 and Keap1 null skeletal muscle. <i>Journal of Physiology</i> , 2020, 598, 5427-5451.	1.3	34
26	Angiotensin II-nitric oxide interactions in the control of sympathetic outflow in heart failure. , 2000, 5, 27-43.		31
27	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.	1.3	30
28	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.	1.3	29
29	Novel mechanisms of sympatho-excitation in chronic heart failure. <i>Heart Failure Monitor</i> , 2002, 3, 2-7.	0.7	26
30	Revised guidelines to enhance the rigor and reproducibility of research published in American Physiological Society journals. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R1251-R1253.	0.9	21
31	Central Angiotensin-II Increases Blood Pressure and Sympathetic Outflow via Rho Kinase Activation in Conscious Rabbits. <i>Hypertension</i> , 2016, 68, 1271-1280.	1.3	20
32	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, 5711-5725.	1.3	19
33	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-H266.	1.5	18
34	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.	1.2	17
35	Research Opportunities in Autonomic Neural Mechanisms of Cardiopulmonary Regulation. <i>JACC Basic To Translational Science</i> , 2022, 7, 265-293.	1.9	17
36	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.	1.6	16

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37	Sympatho-excitatory response to pulmonary chemosensitive spinal afferent activation in anesthetized, vagotomized rats. <i>Physiological Reports</i> , 2018, 6, e13742.	0.7	15
38	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.	0.2	15
39	BDNF contributes to angiotensin II-mediated reductions in peak voltage-gated K <sup>+</sup> current in cultured CATH.a cells. <i>Physiological Reports</i> , 2015, 3, e12598.	0.7	14
40	Benefits of exercise training on cardiovascular dysfunction: molecular and integrative. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H1027-H1031.	1.5	14
41	TRPV1 (Transient Receptor Potential Vanilloid 1) Cardiac Spinal Afferents Contribute to Hypertension in Spontaneous Hypertensive Rat. <i>Hypertension</i> , 2019, 74, 910-920.	1.3	13
42	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.	1.0	13
43	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.	1.4	11
44	Horizontal gene transfer from macrophages to ischemic muscles upon delivery of naked DNA with Pluronic block copolymers. <i>Biomaterials</i> , 2016, 75, 58-70.	5.7	10
45	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.	1.4	10
46	Overexpression of Central ACE2 (Angiotensin-Converting Enzyme 2) Attenuates the Pressor Response to Chronic Central Infusion of Ang II (Angiotensin II). <i>Hypertension</i> , 2020, 76, 1514-1525.	1.3	10
47	Timeline of Multi-Organ Plasma Extravasation After Bleomycin-Induced Acute Lung Injury. <i>Frontiers in Physiology</i> , 2022, 13, 777072.	1.3	10
48	NEURAL CONTROL OF THE CIRCULATION IN HEART FAILURE AND CORONARY ISCHAEMIA: INTRODUCTION. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1996, 23, 685-687.	0.9	9
49	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.	0.8	9
50	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.	1.4	8
51	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-H455.	1.5	7
52	An American Physiological Society cross-journal Call for Papers on "Deconstructing Organs: Single-Cell Analyses, Decellularized Organs, Organoids, and Organ-on-a-Chip Models". <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L266-L272.	1.3	7
53	Macrophage activation in stellate ganglia contributes to lung injury-induced arrhythmogenesis in male rats. <i>Acta Physiologica</i> , 2021, 232, e13657.	1.8	7
54	Disruption of cardiovascular circadian rhythms in mice post myocardial infarction: relationship with central angiotensin II receptor expression. <i>Physiological Reports</i> , 2014, 2, e12210.	0.7	6

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55	Exercise training normalizes renal blood flow responses to acute hypoxia in experimental heart failure: role of the $\beta_1$ -adrenergic receptor. <i>Journal of Applied Physiology</i> , 2016, 120, 334-343.	1.2	6
56	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.	1.5	6
57	Quantification of Renal Sympathetic Vasomotion as a Novel End Point for Renal Denervation. <i>Hypertension</i> , 2020, 76, 1247-1255.	1.3	5
58	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-H1104.	1.5	4
59	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-R166.	0.9	4
60	Why publish in the <i>American Journal of Physiology-Heart and Circulatory Physiology</i> ?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H221-H223.	1.5	4
61	Is Teamwork Still Possible during a Global Pandemic?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H1-H2.	1.5	4
62	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.	1.5	2
63	Call for papers on racial differences in cardiovascular and cerebrovascular physiology. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H249-H250.	1.5	2
64	Sympathoexcitation in chronic heart failure: Ang II induced inhibition of voltage-gated K <sup>+</sup> channel, an in vivo and in vitro study. <i>FASEB Journal</i> , 2006, 20, .	0.2	2
65	Sympathomodulation in heart failure: A role for stellate ganglia Nrf2. <i>FASEB Journal</i> , 2019, 33, 564.5.	0.2	2
66	GLP-1 (Glucagon-Like Peptide-1) Plays a Role in Carotid Chemoreceptor-Mediated Sympathoexcitation and Hypertension. <i>Circulation Research</i> , 2022, 130, 708-710.	2.0	2
67	Demystifying the publishing process: a primer for early career investigators. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H529-H531.	1.5	1
68	Therapeutic microRNA-based strategies in cardiovascular disease discriminate sex and age difference. <i>Journal of Physiology</i> , 2016, 594, 5731-5732.	1.3	1
69	Angiotensin II induces upregulation of AT1 receptors via the sequential activation of transcription factors NF $\kappa$ B, Elk1 and AP1 in Cath.a cells. <i>FASEB Journal</i> , 2009, 23, 609.15.	0.2	1
70	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.	0.2	1
71	Computerized Cardiovascular Dog Lab. <i>MedEdPORTAL: the Journal of Teaching and Learning Resources</i> , 0, .	0.5	1
72	Bardoxolone activates cardiac Nrf2, increases antioxidant expression and lowers arterial pressure in rats with heart failure. <i>FASEB Journal</i> , 2018, 32, 903.11.	0.2	1

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73	Proteomic and Functional Analyses of Keap1&Nrf2 Pathway in Skeletal Muscle. FASEB Journal, 2019, 33, 868.30.	0.2	1
74	Data on macrophage mediated muscle transfection upon delivery of naked plasmid DNA with block copolymers. Data in Brief, 2016, 7, 1269-1282.	0.5	0
75	Guidelines in cardiovascular research, a first for the <i>American Journal of Physiology-Heart and Circulatory Physiology</i>. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H1030-H1030.	1.5	0
76	Renal Sympathetic Denervation Does Not Consistently Affect Renal Input Impedance. FASEB Journal, 2021, 35, .	0.2	0
77	The Nasopharyngeal Reflex is Impaired with the Progression of Chronic Heart Failure in Conscious Rabbits. FASEB Journal, 2006, 20, A1203.	0.2	0
78	Effect of exercise training on skeletal muscle pressor reflexes in chronic heart failure rats. FASEB Journal, 2006, 20, A1196.	0.2	0
79	Heart Rate Variability and Central Angiotensin II Receptors in Heart Failure: Role of Exercise Training. FASEB Journal, 2006, 20, A393.	0.2	0
80	Simvastatin Upregulates the Expression of nNOS and eNOS in Neuronal Cells. FASEB Journal, 2007, 21, A1267.	0.2	0
81	Central treatment of simvastatin normalizes sympathetic outflow in CHF rabbits by a nNOS mechanism. FASEB Journal, 2007, 21, A1267.	0.2	0
82	Angiotensin II induces AT1 receptor upregulation by oxidative stress and activation of AP1 and NF&#x039b;B in two neuronal cell lines. FASEB Journal, 2007, 21, A889.	0.2	0
83	Skeletal muscle superoxide is involved in the enhanced exercise pressor reflex in heart failure rats. FASEB Journal, 2007, 21, A570.	0.2	0
84	Role of ErbB tyrosine kinase receptors in aging&#x2013;related cardiac dysfunction. FASEB Journal, 2008, 22, 1155.2.	0.2	0
85	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.	0.2	0
86	Exercise training normalizes ACE and ACE2 in the brain of rabbits with pacing induced chronic heart failure. FASEB Journal, 2008, 22, 952.7.	0.2	0
87	Increased neuronal discharge in the RVLM of rats with chronic heart failure is mediated by AT1R. FASEB Journal, 2008, 22, 1169.3.	0.2	0
88	Tempol normalizes renal vascular resistance in rabbits with pacing induced heart failure. FASEB Journal, 2009, 23, .	0.2	0
89	Selective over expression of central ACE2 prevents baroreflex dysfunction in the chronic heart failure. FASEB Journal, 2009, 23, 610.2.	0.2	0
90	Skeletal Muscle Overexpression of SOD Normalizes the Exaggerated Exercise Pressor Reflex in Rats with Heart Failure. FASEB Journal, 2009, 23, 787.13.	0.2	0

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91	Central angiotensin type 2 receptor stimulation reduces blood pressure and norepinephrine excretion in conscious normal rats. <i>FASEB Journal</i> , 2010, 24, 808.6.	0.2	0
92	p22phox inhibition in Skeletal Muscle Normalizes the Exaggerated Exercise Pressor Reflex in Chronic Heart Failure. <i>FASEB Journal</i> , 2010, 24, 619.1.	0.2	0
93	Central angiotensin-converting enzyme 2 overexpression decreases blood pressure and enhances baroreflex function in mice with chronic heart failure. <i>FASEB Journal</i> , 2010, 24, 809.20.	0.2	0
94	Intrarenal superoxide dismutase normalizes renal vascular resistance in rabbits with pacing induced heart failure. <i>FASEB Journal</i> , 2010, 24, lb710.	0.2	0
95	Alteration in Skeletal Muscle Afferents in Rats with Chronic Heart Failure. <i>FASEB Journal</i> , 2011, 25, 1054.10.	0.2	0
96	Mas receptor in the RVLM mediates sympatho-inhibitory effect in mice with ACE2 overexpression during heart failure. <i>FASEB Journal</i> , 2012, 26, lb797.	0.2	0
97	Spinal Cord GABA Receptors Inhibit the Exercise Pressor Reflex in Decerebrate Rats. <i>FASEB Journal</i> , 2012, 26, 1087.6.	0.2	0
98	Simvastatin Treatment Attenuates Increased Respiratory Variability and Apnea/Hypopnea Index in Rats with Congestive Heart Failure. <i>FASEB Journal</i> , 2012, 26, lb829.	0.2	0
99	Blunted Arterial Baroreflex Sensitivity: A Contributor to Hypertension in Angiotensin Type 2 Receptor Knockout Mice. <i>FASEB Journal</i> , 2012, 26, 893.7.	0.2	0
100	Rho Kinase Inhibition Lowers Sympathetic Nerve Activity in Conscious Rabbits with Chronic Heart Failure. <i>FASEB Journal</i> , 2012, 26, 703.7.	0.2	0
101	Differential adrenergic signaling in the regulation of renal blood flow in rats with heart failure. <i>FASEB Journal</i> , 2012, 26, 1101.7.	0.2	0
102	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.	0.2	0
103	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.	0.2	0
104	Interaction between angiotensin II (AngII) and brain-derived neurotrophic factor (BDNF) in modulating K <sup>+</sup> currents. <i>FASEB Journal</i> , 2013, 27, lb834.	0.2	0
105	The Exaggerated Exercise Pressor Reflex in Heart Failure: MAPK Activation in Peripheral Dorsal Root Ganglia. <i>FASEB Journal</i> , 2013, 27, 1118.9.	0.2	0
106	Unilateral renal denervation (DNx) improves autonomic balance in conscious rabbits with chronic heart failure (CHF). <i>FASEB Journal</i> , 2013, 27, 927.16.	0.2	0
107	Central Rho kinase inhibition improves baroreflex gain and cardiac autonomic balance in conscious rabbits with CHF. <i>FASEB Journal</i> , 2013, 27, lb843.	0.2	0
108	Crosstalk between central ACE/ACE2 and RhoA/ROCKII Pathways in Chronic Heart Failure.. <i>FASEB Journal</i> , 2013, 27, lb839.	0.2	0

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109	Renal Denervation Increases Renal Blood Flow Variability in Conscious Rabbits. FASEB Journal, 2015, 29, 658.6.	0.2	0
110	Potassium Channel Dysfunction in Dorsal Root Ganglia Contributes to the Exaggerated Exercise Pressor Reflex in Heart Failure. FASEB Journal, 2015, 29, 827.1.	0.2	0
111	Overexpression of Nrf2 Targeting Glutamatergic Neurons in the RVLM Ameliorates Sympathetic Regulation in Mice With Chronic Heart Failure. FASEB Journal, 2018, 32, 593.3.	0.2	0
112	Exosomal MicroRNA-27a Passenger Strand Was Upregulated in Chronic Heart Failure. FASEB Journal, 2018, 32, 903.7.	0.2	0
113	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.	0.2	0
114	TRPA1-Induced Pulmonary Spinal Sympathetic Afferent Activation is Attenuated in Rats with Chronic Heart Failure. FASEB Journal, 2018, 32, 593.1.	0.2	0
115	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.	0.2	0
116	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.	0.2	0
117	It's been a great ride and AJP-Heart and Circulatory Physiology is in great hands. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H1274-H1275.	1.5	0
118	Special issue "Extracellular Vesicles and Exosomes". Free Radical Biology and Medicine, 2022, 184, 12-13.	1.3	0
119	Time-Dependent Characterization of Respiratory Parameters post Bleomycin-Induced Lung Injury. FASEB Journal, 2022, 36, .	0.2	0
120	Timeline of Multi-Organ Plasma Extravasation After Bleomycin-Induced Acute Lung Injury. FASEB Journal, 2022, 36, .	0.2	0
121	Overexpression of Skeletal Muscle Nrf2 Protects Against Aging-Associated Dysfunction in Skeletal Muscle and Heart. FASEB Journal, 2022, 36, .	0.2	0