

Simon Sedej

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

9,208
citations

218381
26
h-index

133063
59
g-index

76
all docs

76
docs citations

76
times ranked

19764
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (edition	4.3	1,430
3	Cardioprotection and lifespan extension by the natural polyamine spermidine. Nature Medicine, 2016, 22, 1428-1438.	15.2	801
4	Cold-Induced Thermogenesis Depends on ATGL-Mediated Lipolysis in Cardiac Muscle, but Not Brown Adipose Tissue. Cell Metabolism, 2017, 26, 753-763.e7.	7.2	242
5	Nucleocytosolic Depletion of the Energy Metabolite Acetyl-Coenzyme A Stimulates Autophagy and Prolongs Lifespan. Cell Metabolism, 2014, 19, 431-444.	7.2	221
6	Autophagy in Cardiovascular Aging. Circulation Research, 2018, 123, 803-824.	2.0	171
7	Nicotinamide for the treatment of heart failure with preserved ejection fraction. Science Translational Medicine, 2021, 13, .	5.8	109
8	Myocardial hypertrophy and its role in heart failure with preserved ejection fraction. Journal of Applied Physiology, 2015, 119, 1233-1242.	1.2	104
9	The flavonoid 4,4â€²-dimethoxychalcone promotes autophagy-dependent longevity across species. Nature Communications, 2019, 10, 651.	5.8	100
10	Dietary spermidine improves cognitive function. Cell Reports, 2021, 35, 108985.	2.9	98
11	Na ⁺ -dependent SR Ca ²⁺ overload induces arrhythmogenic events in mouse cardiomyocytes with a human CPVT mutation. Cardiovascular Research, 2010, 87, 50-59.	1.8	80
12	HDAC inhibition improves cardiopulmonary function in a feline model of diastolic dysfunction. Science Translational Medicine, 2020, 12, .	5.8	75
13	Early Remodeling of Perinuclear Ca ²⁺ Stores and Nucleoplasmic Ca ²⁺ Signaling During the Development of Hypertrophy and Heart Failure. Circulation, 2014, 130, 244-255.	1.6	74
14	NAD ⁺ Metabolism in Cardiac Health, Aging, and Disease. Circulation, 2021, 144, 1795-1817.	1.6	64
15	Dietary spermidine for lowering high blood pressure. Autophagy, 2017, 13, 767-769.	4.3	63
16	cAMP increases Ca ²⁺ -dependent exocytosis through both PKA and Epac2 in mouse melanotrophs from pituitary tissue slices. Journal of Physiology, 2005, 567, 799-813.	1.3	59
17	In Situ Calibration of Nucleoplasmic versus Cytoplasmic Ca ²⁺ Concentration in Adult Cardiomyocytes. Biophysical Journal, 2011, 100, 2356-2366.	0.2	55
18	Intracellular Dyssynchrony of Diastolic Cytosolic [Ca ²⁺] Decay in Ventricular Cardiomyocytes in Cardiac Remodeling and Human Heart Failure. Circulation Research, 2013, 113, 527-538.	2.0	50

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19	Important Contribution of Ca^{2+} -Triggered Exocytosis of Secretory Granules. Journal of Neuroscience, 2006, 26, 10599-10613.	1.7	49
20	JTV519 (K201) reduces sarcoplasmic reticulum Ca^{2+} leak and improves diastolic function <i>in vitro</i> in murine and human non-failing myocardium. British Journal of Pharmacology, 2012, 167, 493-504.	2.7	49
21	Subclinical Abnormalities in Sarcoplasmic Reticulum Ca^{2+} Release Promote Eccentric Myocardial Remodeling and Pump Failure Death in Response to Pressure Overload. Journal of the American College of Cardiology, 2014, 63, 1569-1579.	1.2	47
22	Suppression of Arrhythmia by Enhancing Mitochondrial Ca^{2+} Uptake in Catecholaminergic Ventricular Tachycardia Models. JACC Basic To Translational Science, 2017, 2, 737-747.	1.9	35
23	Autophagy in cardiovascular health and disease. Progress in Molecular Biology and Translational Science, 2020, 172, 87-106.	0.9	35
24	Overexpression of CaMKII δ in RyR2R4496C/ δ Knock-In Mice Leads to Altered Intracellular Ca^{2+} Handling and Increased Mortality. Journal of the American College of Cardiology, 2011, 57, 469-479.	1.2	34
25	Effects of Atrial Fibrillation on the Human Ventricle. Circulation Research, 2022, 130, 994-1010.	2.0	32
26	Voltage-activated Ca^{2+} -channels and their role in the endocrine function of the pituitary gland in newborn and adult mice. Journal of Physiology, 2004, 555, 769-782.	1.3	31
27	CaMKII δ Drives Early Adaptive Ca^{2+} Change and Late Eccentric Cardiac Hypertrophy. Circulation Research, 2020, 127, 1159-1178.	2.0	31
28	Fine-Tuning Cardiac Insulin-Like Growth Factor 1 Receptor Signaling to Promote Health and Longevity. Circulation, 2022, 145, 1853-1866.	1.6	29
29	The Anti-Cancer Multikinase Inhibitor Sorafenib Impairs Cardiac Contractility by Reducing Phospholamban Phosphorylation and Sarcoplasmic Calcium Transients. Scientific Reports, 2018, 8, 5295.	1.6	22
30	Transcription Factor GATA4 Is Activated but Not Required for Insulin-like Growth Factor 1 (IGF1)-induced Cardiac Hypertrophy. Journal of Biological Chemistry, 2012, 287, 9827-9834.	1.6	19
31	Ketone bodies to the rescue for an aging heart?. Cardiovascular Research, 2018, 114, e1-e2.	1.8	19
32	A histone point mutation that switches on autophagy. Autophagy, 2014, 10, 1143-1145.	4.3	18
33	Loss of autophagy protein ATG5 impairs cardiac capacity in mice and humans through diminishing mitochondrial abundance and disrupting Ca^{2+} cycling. Cardiovascular Research, 2022, 118, 1492-1505.	1.8	18
34	Cytosolic Cl^{-} ions in the regulation of secretory and endocytotic activity in melanotrophs from mouse pituitary tissue slices. Journal of Physiology, 2005, 566, 443-453.	1.3	16
35	Spermidine supplementation influences mitochondrial number and morphology in the heart of aged mice. Journal of Anatomy, 2023, 242, 91-101.	0.9	16
36	CaMKII and PKA-dependent phosphorylation co-regulate nuclear localization of HDAC4 in adult cardiomyocytes. Basic Research in Cardiology, 2021, 116, 11.	2.5	15

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37	Hypoinnervation is an early event in experimental myocardial remodelling induced by pressure overload. <i>Journal of Anatomy</i> , 2013, 222, 634-644.	0.9	13
38	Targeting Cardiovascular Risk Factors Through Dietary Adaptations and Caloric Restriction Mimetics. <i>Frontiers in Nutrition</i> , 2021, 8, 758058.	1.6	13
39	Regulatory T Cells Improve Nephrocalcinosis but Not Dystrophic Cardiac Calcinosis in DBA/2 Mice. <i>American Journal of Pathology</i> , 2013, 183, 382-390.	1.9	10
40	Cardiovascular benefits of intermittent fasting. <i>Cardiovascular Research</i> , 2020, 116, e36-e38.	1.8	9
41	Mass Spectrometry-Based Redox and Protein Profiling of Failing Human Hearts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1787.	1.8	9
42	Cardioprotective effects of autophagy induction in sepsis. <i>Annals of Translational Medicine</i> , 2018, 6, S61-S61.	0.7	7
43	Basal oxidation of conserved cysteines modulates cardiac titin stiffness and dynamics. <i>Redox Biology</i> , 2022, 52, 102306.	3.9	7
44	NAD ⁺ and Vascular Dysfunction: From Mechanisms to Therapeutic Opportunities. <i>Journal of Lipid and Atherosclerosis</i> , 2022, 11, 111.	1.1	7
45	N-acetylaspartate availability is essential for juvenile survival on fat-free diet and determines metabolic health. <i>FASEB Journal</i> , 2019, 33, 13808-13824.	0.2	6
46	The role of stretch, tachycardia and sodium-calcium exchanger in induction of early cardiac remodelling. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 8732-8743.	1.6	6
47	Rab3a Is Critical for Trapping Alpha-MSH Granules in the High Ca ²⁺ -Affinity Pool by Preventing Constitutive Exocytosis. <i>PLoS ONE</i> , 2013, 8, e78883.	1.1	6
48	Spermidine overrides INSR (insulin receptor)-IGF1R (insulin-like growth factor 1 receptor)-mediated inhibition of autophagy in the aging heart. <i>Autophagy</i> , 2022, 18, 2500-2502.	4.3	6
49	Cardiomyocyte loss is not required for the progression of left ventricular hypertrophy induced by pressure overload in female mice. <i>Journal of Anatomy</i> , 2016, 229, 75-81.	0.9	5
50	Cardioprotection by spermidine does not depend on structural characteristics of the myocardial microcirculation in aged mice. <i>Experimental Gerontology</i> , 2019, 119, 82-88.	1.2	5
51	Spermidine supplementation and voluntary activity differentially affect obesity-related structural changes in the mouse lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L312-L324.	1.3	5
52	The effects of long-term moderate exercise and Western-type diet on oxidative/nitrosative stress, serum lipids and cytokines in female Sprague Dawley rats. <i>European Journal of Nutrition</i> , 2021, , 1.	1.8	5
53	Effects of Short Term Adiponectin Receptor Agonism on Cardiac Function and Energetics in Diabetic <i>db/db</i> Mice. <i>Journal of Lipid and Atherosclerosis</i> , 2022, 11, 161.	1.1	5
54	Endocytosis-Dominated Membrane Area Decrease Requires Rab5 Protein in Rat Melanotrophs. <i>Annals of the New York Academy of Sciences</i> , 2005, 1048, 272-280.	1.8	3

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55	miR-1183 Is a Key Marker of Remodeling upon Stretch and Tachycardia in Human Myocardium. International Journal of Molecular Sciences, 2022, 23, 6962.	1.8	3
56	Phosphatidylinositol 4,5-bisphosphate-dependent Facilitation of the ATP-dependent Secretory Activity in Mouse Pituitary Cells. Annals of the New York Academy of Sciences, 2009, 1152, 165-173.	1.8	2
57	Metabolic therapy for managing heart failure with preserved ejection fraction. Journal of Molecular and Cellular Cardiology, 2022, 168, 68-69.	0.9	2
58	Effects of JTV519 (K201) on Na ⁺ - and Ca ²⁺ Overload-Induced Arrhythmogenic Ca ²⁺ Release in Mouse Cardiac Myocytes. Biophysical Journal, 2011, 100, 187a.	0.2	1
59	Effects of urocortin-2 on cellular Ca ²⁺ homeostasis in right heart failure induced by pulmonary artery hypertension. , 2018, , .		1
60	Subcellular Mechanisms of Early Impaired Calcium Homeostasis with Chronic Beta1-Adrenergic Stimulation in Mice. Biophysical Journal, 2010, 98, 296a.	0.2	0
61	Nucleoplasmic [Ca] Transients Alterations and Perinuclear Ca Stores Remodeling after Pressure Overload-Induced Hypertrophy in Adult Cardiac Myocytes. Biophysical Journal, 2012, 102, 313a.	0.2	0
62	Quantification of Cytoplasmic and Nucleoplasmic [Ca] Transients in Cardiomyocytes from Non-Failing and End-Stage Failing Human Hearts. Biophysical Journal, 2012, 102, 102a-103a.	0.2	0
63	Mechanisms of Ca ²⁺ -Triggered Arrhythmias. , 2012, , .		0
64	TRPC3 Channels in Angiotensin II-Induced Calcium-Dependent Arrhythmias in Mouse and Human Cardiomyocytes. Biophysical Journal, 2013, 104, 434a.	0.2	0
65	P388Reduced pressure overload-induced myocardial remodeling in K201-treated mice with the R4496C cardiac ryanodine receptor mutation. Cardiovascular Research, 2014, 103, S71.2-S71.	1.8	0
66	Alterations of Nuclear Ca ²⁺ -Dependent Signalling in Heart Failure. Biophysical Journal, 2014, 106, 115a.	0.2	0
67	Suppression of Arrhythmia by Enhancing Mitochondrial Calcium Uptake in Experimental Models of Catecholaminergic Ventricular Tachycardia. Biophysical Journal, 2017, 112, 95a.	0.2	0
68	Editorial of Special Issue "Sirtuins in Health and Disease" International Journal of Molecular Sciences, 2021, 22, 5054.	1.8	0
69	Effects of physiologic inputs on autophagy. , 2022, , 81-95.		0
70	Atrial fibrillation impairs ventricular function by altering excitation-contraction coupling in the human heart. European Heart Journal, 2020, 41, .	1.0	0
71	MIR1183 as a new tissue biomarker with triggered acute response and upregulation in chronic atrial and ventricular remodeling. European Heart Journal, 2020, 41, .	1.0	0