Maike Krenz

List of Publications by Citations

44 papers	3,237 citations	25 h-index	46 g-index
46 ext. papers	3,782 ext. citations	6.2 avg, IF	5.25 L-index

#	Paper	IF	Citations
44	Cell biology of ischemia/reperfusion injury. *International Review of Cell and Molecular Biology*, **2012**, 298, 229-317	6	1109
43	Ischemia/Reperfusion. *Comprehensive Physiology*, **2016**, 7, 113-170	7.7	354
42	Inhibition of ischemic cardiomyocyte apoptosis through targeted ablation of Bnip3 restrains postinfarction remodeling in mice. *Journal of Clinical Investigation*, **2007**, 117, 2825-33	15.9	238
41	Impact of beta-myosin heavy chain expression on cardiac function during stress. *Journal of the American College of Cardiology*, **2004**, 44, 2390-7	15.1	188
40	Opening of ATP-sensitive potassium channels causes generation of free radicals in vascular smooth muscle cells. *Basic Research in Cardiology*, **2002**, 97, 365-73	11.8	117
39	Moderate ethanol ingestion and cardiovascular protection: from epidemiologic associations to cellular mechanisms. *Journal of Molecular and Cellular Cardiology*, **2012**, 52, 93-104	5.8	112
38	Analysis of myosin heavy chain functionality in the heart. *Journal of Biological Chemistry*, **2003**, 278, 17466-74	5.4	87
37	Mediating ERK 1/2 signaling rescues congenital heart defects in a mouse model of Noonan syndrome. *Journal of Clinical Investigation*, **2007**, 117, 2123-32	15.9	82
36	Molecular mechanics of mouse cardiac myosin isoforms. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 283, H1446-54	5.2	77
35	Forced expression of alpha-myosin heavy chain in the rabbit ventricle results in cardioprotection under cardiomyopathic conditions. *Circulation*, **2005**, 111, 2339-46	16.7	65
34	Role of ERK1/2 signaling in congenital valve malformations in Noonan syndrome. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 18930-5	11.5	64
33	The PTPN11 loss-of-function mutation Q510E-Shp2 causes hypertrophic cardiomyopathy by dysregulating mTOR signaling. *American Journal of Physiology - Heart and Circulatory Physiology*, **2012**, 302, H231-43	5.2	52
32	Heart failure with preserved ejection fraction: chronic low-intensity interval exercise training preserves myocardial O2 balance and diastolic function. *Journal of Applied Physiology*, **2013**, 114, 131-47	3.7	50
31	Noonan syndrome mutation Q79R in Shp2 increases proliferation of valve primordia mesenchymal cells via extracellular signal-regulated kinase 1/2 signaling. *Circulation Research*, **2005**, 97, 813-20	15.7	47
30	The Nox1/4 Dual Inhibitor GKT137831 or Nox4 Knockdown Inhibits Angiotensin-II-Induced Adult Mouse Cardiac Fibroblast Proliferation and Migration. AT1 Physically Associates With Nox4. *Journal of Cellular Physiology*, **2016**, 231, 1130-41	7	44
29	Acute ethanol exposure fails to elicit preconditioning-like protection in in situ rabbit hearts because of its continued presence during ischemia. *Journal of the American College of Cardiology*, **2001**, 37, 601-7	15.1	42
28	Metformin inhibits aldosterone-induced cardiac fibroblast activation, migration and proliferation in vitro, and reverses aldosterone+salt-induced cardiac fibrosis in vivo. *Journal of Molecular and Cellular Cardiology*, **2016**, 98, 95-102	5.8	38

27	TEAD-1 overexpression in the mouse heart promotes an age-dependent heart dysfunction. *Journal of Biological Chemistry*, **2010**, 285, 13721-35	5.4	37
26	The protein tyrosine phosphatase Shp2 is required for the generation of oligodendrocyte progenitor cells and myelination in the mouse telencephalon. *Journal of Neuroscience*, **2014**, 34, 3767-78	6.6	35
25	Cardiac-specific hexokinase 2 overexpression attenuates hypertrophy by increasing pentose phosphate pathway flux. *Journal of the American Heart Association*, **2013**, 2, e000355	6	34
24	Acute alcohol-induced protection against infarction in rabbit hearts: differences from and similarities to ischemic preconditioning. *Journal of Molecular and Cellular Cardiology*, **2001**, 33, 2015-22	5.8	34
23	Distribution and structure-function relationship of myosin heavy chain isoforms in the adult mouse heart. *Journal of Biological Chemistry*, **2007**, 282, 24057-64	5.4	33
22	TRPV4 increases cardiomyocyte calcium cycling and contractility yet contributes to damage in the aged heart following hypoosmotic stress. *Cardiovascular Research*, **2019**, 115, 46-56	9.9	29
21	Menadione mimics the infarct-limiting effect of preconditioning in isolated rat hearts. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 281, H590-5	5.2	27
20	Cardiac myosin heavy chain isoform exchange alters the phenotype of cTnT-related cardiomyopathies in mouse hearts. *Journal of Molecular and Cellular Cardiology*, **2010**, 48, 979-88	5.8	26
19	Western Diet-Fed, Aortic-Banded Ossabaw Swine: A Preclinical Model of Cardio-Metabolic Heart Failure. *JACC Basic To Translational Science*, **2019**, 4, 404-421	8.7	25
18	Shifts in the myosin heavy chain isozymes in the mouse heart result in increased energy efficiency. *Journal of Molecular and Cellular Cardiology*, **2007**, 42, 214-21	5.8	25
17	Saxagliptin and Tadalafil Differentially Alter Cyclic Guanosine Monophosphate (cGMP) Signaling and Left Ventricular Function in Aortic-Banded Mini-Swine. *Journal of the American Heart Association*, **2016**, 5, e003277	6	20
16	Proteomic mapping of proteins released during necrosis and apoptosis from cultured neonatal cardiac myocytes. *American Journal of Physiology - Cell Physiology*, **2014**, 306, C639-47	5.4	19
15	A new twist on an old idea part 2: cyclosporine preserves normal mitochondrial but not cardiomyocyte function in mini-swine with compensated heart failure. *Physiological Reports*, **2014**, 2, e12050	2.6	19
14	New approaches to prevent LEOPARD syndrome-associated cardiac hypertrophy by specifically targeting Shp2-dependent signaling. *Journal of Biological Chemistry*, **2013**, 288, 18335-44	5.4	16
13	The protective and anti-protective effects of ethanol in a myocardial infarct model. *Annals of the New York Academy of Sciences*, **2002**, 957, 103-14	6.5	15
12	Histone deacetyltransferase inhibitors Trichostatin A and Mocetinostat differentially regulate MMP9, IL-18 and RECK expression, and attenuate Angiotensin II-induced cardiac fibroblast migration and proliferation. *Hypertension Research*, **2016**, 39, 709-716	4.7	14
11	SHP-2 deletion in postmigratory neural crest cells results in impaired cardiac sympathetic innervation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E1374-82	11.5	12
10	Elevated Ca2+ transients and increased myofibrillar power generation cause cardiac hypercontractility in a model of Noonan syndrome with multiple lentigines. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 308, H1086-95	5.2	10

9	Dose-response relationships of the protective and antiprotective effects of acute ethanol exposure in isolated rabbit hearts. *Heart Disease (Hagerstown, Md)*, **2002**, 4, 276-81		10
8	The Q510E mutation in Shp2 perturbs heart valve development by increasing cell migration. *Journal of Applied Physiology*, **2015**, 118, 124-31	3.7	8
7	Protective and anti-protective effects of acute ethanol exposure in myocardial ischemia/reperfusion. *Pathophysiology*, **2004**, 10, 113-9	1.8	8
6	Heterozygous deletion of AKT1 rescues cardiac contractility, but not hypertrophy, in a mouse model of Noonan Syndrome with Multiple Lentigines. *Journal of Molecular and Cellular Cardiology*, **2017**, 112, 83-90	5.8	3
5	Cell Survival Programs and Ischemia/Reperfusion: Hormesis, Preconditioning, and Cardioprotection. *Colloquium Series on Integrated Systems Physiology From Molecule To Function*, **2013**, 5, 1-122		3
4	The novel cyclophilin-D-interacting protein FASTKD1 protects cells against oxidative stress-induced cell death. *American Journal of Physiology - Cell Physiology*, **2019**, 317, C584-C599	5.4	2
3	Gates of fate. *Journal of Molecular and Cellular Cardiology*, **2001**, 33, 2079-82	5.8	0
2	Development of the elastin network in the walls of resistance arteries from neonatal and adult rats. *FASEB Journal*, **2013**, 27, 679.8	0.9	
1	Friend or foe? Unraveling the complex roles of protein tyrosine phosphatases in cardiac disease and development.. *Cellular Signalling*, **2022**, 110297	4.9	