Nina C Weber

List of Publications by Year in Descending Order

67 papers	1,446 citations	20 h-index	36 g-index
70 ext. papers	1,862 ext. citations	4.7 avg, IF	4.38 L-index

#	Paper	IF	Citations
67	Direct cardiac effects of SGLT2 inhibitors.. *Cardiovascular Diabetology*, **2022**, 21, 45	8.7	5
66	Cardiac mechanisms of the beneficial effects of SGLT2 inhibitors in heart failure: Evidence for potential off-target effects.. *Journal of Molecular and Cellular Cardiology*, **2022**, 167, 17-31	5.8	4
65	Empagliflozin reduces oxidative stress through inhibition of the novel inflammation/NHE/[Na]/ROS-pathway in human endothelial cells.. *Biomedicine and Pharmacotherapy*, **2021**, 146, 112515	7.5	8
64	Novel Anti-inflammatory Effects of Canagliflozin Involving Hexokinase II in Lipopolysaccharide-Stimulated Human Coronary Artery Endothelial Cells. *Cardiovascular Drugs and Therapy*, **2021**, 35, 1083-1094	3.9	16
63	Pharmacological Conditioning of the Heart: An Update on Experimental Developments and Clinical Implications. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	6
62	The Redox Modulating Sonlicromanol Active Metabolite KH176m and the Antioxidant MPG Protect Against Short-Duration Cardiac Ischemia-Reperfusion Injury. *Cardiovascular Drugs and Therapy*, **2021**, 35, 745-758	3.9	1
61	Effects of Hyperglycemia and Diabetes Mellitus on Coagulation and Hemostasis. *Journal of Clinical Medicine*, **2021**, 10,	5.1	4
60	Sodium Glucose Co-Transporter 2 Inhibitors Ameliorate Endothelium Barrier Dysfunction Induced by Cyclic Stretch through Inhibition of Reactive Oxygen Species. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	11
59	Perioperative Cardioprotection: General Mechanisms and Pharmacological Approaches. *Anesthesia and Analgesia*, **2020**, 131, 1765-1780	3.9	9
58	Red-blood-cell manufacturing methods and storage solutions differentially induce pulmonary cell activation. *Vox Sanguinis*, **2020**, 115, 395-404	3.1	2
57	Empagliflozin Decreases Lactate Generation in an NHE-1 Dependent Fashion and Increases Ketoglutarate Synthesis From Palmitate in Type II Diabetic Mouse Hearts. *Frontiers in Cardiovascular Medicine*, **2020**, 7, 592233	5.4	12
56	NLRX1 Deletion Increases Ischemia-Reperfusion Damage and Activates Glucose Metabolism in Mouse Heart. *Frontiers in Immunology*, **2020**, 11, 591815	8.4	5
55	Helium-Induced Changes in Circulating Caveolin in Mice Suggest a Novel Mechanism of Cardiac Protection. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	9
54	Plasma from Volunteers Breathing Helium Reduces Hypoxia-Induced Cell Damage in Human Endothelial Cells-Mechanisms of Remote Protection Against Hypoxia by Helium. *Cardiovascular Drugs and Therapy*, **2019**, 33, 297-306	3.9	5
53	Gaseous mediators: an updated review on the effects of helium beyond blowing up balloons. *Intensive Care Medicine Experimental*, **2019**, 7, 73	3.7	9
52	Empagliflozin and Dapagliflozin Reduce ROS Generation and Restore NO Bioavailability in Tumor Necrosis Factor Stimulated Human Coronary Arterial Endothelial Cells. *Cellular Physiology and Biochemistry*, **2019**, 53, 865-886	3.9	69
51	Delayed ischaemic contracture onset by empagliflozin associates with NHE1 inhibition and is dependent on insulin in isolated mouse hearts. *Cardiovascular Research*, **2019**, 115, 1533-1545	9.9	48

50	Helium alters the cytoskeleton and decreases permeability in endothelial cells cultured in vitro through a pathway involving Caveolin-1. *Scientific Reports*, **2018**, 8, 4768	4.9	7
49	Remote Ischemic Preconditioning Does Not Affect the Release of Humoral Factors in Propofol-Anesthetized Cardiac Surgery Patients: A Secondary Analysis of the RIPHeart Study. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	11
48	Administration of SGLT2 inhibitor empagliflozin against TNF-induced endothelial dysfunction in human venous and arterial endothelial cells.. *FASEB Journal*, **2018**, 32, 569.4	0.9	1
47	Empagliflozin effects on ischemic contracture and I/R injury in isolated mouse hearts perfused with or without insulin. *FASEB Journal*, **2018**, 32, lb292	0.9	
46	Class effects of SGLT2 inhibitors in mouse cardiomyocytes and hearts: inhibition of Na/H exchanger, lowering of cytosolic Na and vasodilation. *Diabetologia*, **2018**, 61, 722-726	10.3	241
45	Direct Cardiac Actions of Sodium Glucose Cotransporter 2 Inhibitors Target Pathogenic Mechanisms Underlying Heart Failure in Diabetic Patients. *Frontiers in Physiology*, **2018**, 9, 1575	4.6	76
44	A randomized trial of remote ischemic preconditioning and control treatment for cardioprotection in sevoflurane-anesthetized CABG patients. *BMC Anesthesiology*, **2017**, 17, 51	2.4	10
43	Cyclophilin D ablation is associated with increased end-ischemic mitochondrial hexokinase activity. *Scientific Reports*, **2017**, 7, 12749	4.9	5
42	Effect of Xenon Anesthesia Compared to Sevoflurane and Total Intravenous Anesthesia for Coronary Artery Bypass Graft Surgery on Postoperative Cardiac Troponin Release: An International, Multicenter, Phase 3, Single-blinded, Randomized Noninferiority Trial. *Anesthesiology*, **2017**, 127, 918-933	4.3	27
41	Helium postconditioning regulates expression of caveolin-1 and -3 and induces RISK pathway activation after ischaemia/reperfusion in cardiac tissue of rats. *European Journal of Pharmacology*, **2016**, 791, 718-725	5.3	13
40	Reducing mitochondrial bound hexokinase II mediates transition from non-injurious into injurious ischemia/reperfusion of the intact heart. *Journal of Physiology and Biochemistry*, **2016**, 73, 323-333	5	13
39	Effect of helium pre- or postconditioning on signal transduction kinases in patients undergoing coronary artery bypass graft surgery. *Journal of Translational Medicine*, **2016**, 14, 294	8.5	9
38	Assessment of intensive care unit-acquired weakness in young and old mice: An E. coli septic peritonitis model. *Muscle and Nerve*, **2016**, 53, 127-33	3.4	6
37	Effects of helium on inflammatory and oxidative stress-induced endothelial cell damage. *Experimental Cell Research*, **2015**, 337, 37-43	4.2	10
36	Plasma from human volunteers subjected to remote ischemic preconditioning protects human endothelial cells from hypoxia-induced cell damage. *Basic Research in Cardiology*, **2015**, 110, 17	11.8	20
35	Noble gases as cardioprotectants - translatability and mechanism. *British Journal of Pharmacology*, **2015**, 172, 2062-73	8.6	20
34	Role of Endogenous Opioid System in Ischemic-Induced Late Preconditioning. *PLoS ONE*, **2015**, 10, e0134283	3.7	9
33	Prolonged helium postconditioning protocols during early reperfusion do not induce cardioprotection in the rat heart in vivo: role of inflammatory cytokines. *Journal of Immunology Research*, **2015**, 2015, 216798	4.5	5

32	Reduction of cardiac cell death after helium postconditioning in rats: transcriptional analysis of cell death and survival pathways. *Molecular Medicine*, **2015**, 20, 516-26	6.2	13
31	Targets Involved in Cardioprotection by the Non-Anesthetic Noble Gas Helium. *Current Drug Targets*, **2015**, 16, 786-92	3	10
30	Nlrp3 plays no role in acute cardiac infarction due to low cardiac expression. *International Journal of Cardiology*, **2014**, 177, 41-3	3.2	42
29	In vivo desflurane preconditioning evokes dynamic alterations of metabolic proteins in the heart--proteomic insights strengthen the link between bioenergetics and cardioprotection. *Cellular Physiology and Biochemistry*, **2014**, 33, 967-81	3.9	6
28	Cardioprotective efficacy depends critically on pharmacological dose, duration of ischaemia, health status of animals and choice of anaesthetic regimen: a case study with folic acid. *Journal of Translational Medicine*, **2014**, 12, 325	8.5	10
27	Intravenous S-ketamine does not inhibit alveolar fluid clearance in a septic rat model. *PLoS ONE*, **2014**, 9, e112622	3.7	1
26	In reply. *Anesthesiology*, **2013**, 119, 488-9	4.3	
25	Hydrogen sulfide donor NaHS reduces organ injury in a rat model of pneumococcal pneumosepsis, associated with improved bio-energetic status. *PLoS ONE*, **2013**, 8, e63497	3.7	35
24	Helium induces preconditioning in human endothelium in vivo. *Anesthesiology*, **2013**, 118, 95-104	4.3	23
23	Transcriptional regulation of cardiac cell death and survival signaling by helium postconditioning in a rat model of regional cardiac ischemia/reperfusion. *FASEB Journal*, **2013**, 27, lb623	0.9	1
22	Helium inhalation induces caveolin secretion to blood. *FASEB Journal*, **2013**, 27, 1089.3	0.9	2
21	Helium-induced cardioprotection of healthy and hypertensive rat myocardium in vivo. *European Journal of Pharmacology*, **2012**, 684, 125-31	5.3	27
20	Effects of helium and air inhalation on the innate and early adaptive immune system in healthy volunteers ex vivo. *Journal of Translational Medicine*, **2012**, 10, 201	8.5	4
19	Age-related loss of cardiac preconditioning: impact of protein kinase A. *Experimental Gerontology*, **2012**, 47, 116-21	4.5	33
18	Effects of noble gas conditioning on Caveolin expression in the rat heart in vivo. *FASEB Journal*, **2012**, 26, 1114.17	0.9	
17	Effect of remote ischemic conditioning on atrial fibrillation and outcome after coronary artery bypass grafting (RICO-trial). *BMC Anesthesiology*, **2011**, 11, 11	2.4	15
16	The effect of standard chow and reduced hexokinase II on growth, cardiac and skeletal muscle hexokinase and low-flow cardiac ischaemia-reperfusion injury. *Laboratory Animals*, **2011**, 45, 160-6	2.6	13
15	Postconditioning by xenon and hypothermia in the rat heart in vivo. *European Journal of Anaesthesiology*, **2010**, 27, 734-9	2.3	21

14	Hypoxia induces late preconditioning in the rat heart in vivo. *Anesthesiology*, **2010**, 113, 1351-60	4.3	15
13	Sevoflurane-induced preconditioning: impact of protocol and aprotinin administration on infarct size and endothelial nitric-oxide synthase phosphorylation in the rat heart in vivo. *Anesthesiology*, **2010**, 113, 1289-98	4.3	33
12	Morphine induces preconditioning via activation of mitochondrial K(Ca) channels. *Canadian Journal of Anaesthesia*, **2010**, 57, 767-73	3	19
11	Cellular effects of helium in different organs. *Anesthesiology*, **2010**, 112, 1503-10	4.3	38
10	Impact of preconditioning protocol on anesthetic-induced cardioprotection in patients having coronary artery bypass surgery. *Journal of Thoracic and Cardiovascular Surgery*, **2009**, 137, 1436-42, 1442.e1-2	1.5	60
9	Hypoxia-inducible factor 1 and related gene products in anaesthetic-induced preconditioning. *European Journal of Anaesthesiology*, **2009**, 26, 201-6	2.3	30
8	The regulation of mitochondrial respiration by opening of mKCa channels is age-dependent. *European Journal of Pharmacology*, **2008**, 578, 108-13	5.3	16
7	Blockade of anaesthetic-induced preconditioning in the hyperglycaemic myocardium: the regulation of different mitogen-activated protein kinases. *European Journal of Pharmacology*, **2008**, 592, 48-54	5.3	13
6	Physiological levels of glutamine prevent morphine-induced preconditioning in the isolated rat heart. *European Journal of Pharmacology*, **2008**, 595, 58-64	5.3	5
5	Xenon induces late cardiac preconditioning in vivo: a role for cyclooxygenase 2?. *Anesthesia and Analgesia*, **2008**, 107, 1807-13	3.9	37
4	Molecular biology in cardiovascular anaesthesia. *Current Opinion in Anaesthesiology*, **2008**, 21, 71-7	2.9	2
3	Intermitted pharmacologic pretreatment by xenon, isoflurane, nitrous oxide, and the opioid morphine prevents tumor necrosis factor alpha-induced adhesion molecule expression in human umbilical vein endothelial cells. *Anesthesiology*, **2008**, 108, 199-207	4.3	24
2	Helium-induced preconditioning in young and old rat heart: impact of mitochondrial Ca(2+) -sensitive potassium channel activation. *Anesthesiology*, **2008**, 109, 830-6	4.3	71
1	The noble gas xenon induces pharmacological preconditioning in the rat heart in vivo via induction of PKC-epsilon and p38 MAPK. *British Journal of Pharmacology*, **2005**, 144, 123-32	8.6	118