

Dorothee Weihrauch Dvm

List of Publications by Year in descending order

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46
papers

1,204
citations

471509

17
h-index

377865

34
g-index

48
all docs

48
docs citations

48
times ranked

1175
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Preconditioning by Isoflurane in Rabbits: A Direct Role for Reactive Oxygen Species. <i>Anesthesiology</i> , 2002, 97, 1485-1490.	2.5	172
2	Mitochondrial Adenosine Triphosphate-regulated Potassium Channel Opening Acts as a Trigger for Isoflurane-induced Preconditioning by Generating Reactive Oxygen Species. <i>Anesthesiology</i> , 2003, 98, 935-943.	2.5	133
3	Protein Kinase C Translocation and Src Protein Tyrosine Kinase Activation Mediate Isoflurane-induced Preconditioning In Vivo. <i>Anesthesiology</i> , 2004, 100, 532-539.	2.5	98
4	Role of Endothelial Nitric Oxide Synthase as a Trigger and Mediator of Isoflurane-induced Delayed Preconditioning in Rabbit Myocardium. <i>Anesthesiology</i> , 2005, 103, 74-83.	2.5	93
5	Chronic Hyperglycemia Attenuates Coronary Collateral Development and Impairs Proliferative Properties of Myocardial Interstitial Fluid by Production of Angiostatin. <i>Circulation</i> , 2004, 109, 2343-2348.	1.6	75
6	Effects of D-4F on vasodilation, oxidative stress, angiostatin, myocardial inflammation, and angiogenic potential in tight-skin mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H1432-H1441.	3.2	66
7	Preconditioning by Isoflurane Is Mediated by Reactive Oxygen Species Generated from Mitochondrial Electron Transport Chain Complex III. <i>Anesthesia and Analgesia</i> , 2004, 99, 1308-1315.	2.2	57
8	Cardioprotection by volatile anesthetics. <i>Vascular Pharmacology</i> , 2005, 42, 243-252.	2.1	56
9	Endothelial-cardiomyocyte crosstalk enhances pharmacological cardioprotection. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 51, 803-811.	1.9	54
10	Abnormal fibrillin-1 expression and chronic oxidative stress mediate endothelial mesenchymal transition in a murine model of systemic sclerosis. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 300, C550-C556.	4.6	43
11	Wavelength-dependence of vasodilation and NO release from S-nitrosothiols and dinitrosyl iron complexes by far red/near infrared light. <i>Archives of Biochemistry and Biophysics</i> , 2018, 649, 47-52.	3.0	42
12	Protein Kinase C- μ Primes the Cardiac Sarcolemmal Adenosine Triphosphate-sensitive Potassium Channel to Modulation by Isoflurane. <i>Anesthesiology</i> , 2004, 101, 381-389.	2.5	40
13	Inhibition of myeloperoxidase decreases vascular oxidative stress and increases vasodilatation in sickle cell disease mice. <i>Journal of Lipid Research</i> , 2013, 54, 3009-3015.	4.2	37
14	Cardioprotection by volatile anesthetics: new applications for old drugs?. <i>Current Opinion in Anaesthesiology</i> , 2006, 19, 397-403.	2.0	32
15	Red/near infrared light stimulates release of an endothelium dependent vasodilator and rescues vascular dysfunction in a diabetes model. <i>Free Radical Biology and Medicine</i> , 2017, 113, 157-164.	2.9	31
16	Adjuvant doxycycline to enhance anti-amyloid effects: Results from the dual phase 2 trial. <i>EClinicalMedicine</i> , 2020, 23, 100361.	7.1	27
17	Far red/near infrared light treatment promotes femoral artery collateralization in the ischemic hindlimb. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 62, 36-42.	1.9	22
18	Rationale and design of DUAL study: Doxycycline to Upgrade response in light chain (AL) amyloidosis (DUAL): A phase 2 pilot study of a two-pronged approach of prolonged doxycycline with plasma cell-directed therapy in the treatment of AL amyloidosis. <i>Contemporary Clinical Trials Communications</i> , 2017, 8, 33-38.	1.1	17

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19	Transient Repetitive Exposure to Low Level Light Therapy Enhances Collateral Blood Vessel Growth in The Ischemic Hindlimb of The Tight Skin Mouse. <i>Photochemistry and Photobiology</i> , 2013, 89, 709-713.	2.5	15
20	4F Decreases IRF5 Expression and Activation in Hearts of Tight Skin Mice. <i>PLoS ONE</i> , 2012, 7, e52046.	2.5	13
21	Red light stimulates vasodilation through extracellular vesicle trafficking. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 220, 112212.	3.8	13
22	Isoflurane Favorably Modulates Guanosine Triphosphate Cyclohydrolase-1 and Endothelial Nitric Oxide Synthase during Myocardial Ischemia and Reperfusion Injury in Rats. <i>Anesthesiology</i> , 2015, 123, 582-589.	2.5	10
23	PPAR β -Independent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts. <i>Cells</i> , 2020, 9, 252.	4.1	10
24	An IRF5 Decoy Peptide Reduces Myocardial Inflammation and Fibrosis and Improves Endothelial Cell Function in Tight-Skin Mice. <i>PLoS ONE</i> , 2016, 11, e0151999.	2.5	9
25	Alagebrium inhibits neointimal hyperplasia and restores distributions of wall shear stress by reducing downstream vascular resistance in obese and diabetic rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1130-H1140.	3.2	7
26	Lipid emulsion enhances cardiac performance after ischemiaâ€œreperfusion in isolated hearts from summer-active arctic ground squirrels. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2017, 187, 715-724.	1.5	7
27	Detection of TRPV4 channel current-like activity in Fawn Hooded hypertensive (FHH) rat cerebral arterial muscle cells. <i>PLoS ONE</i> , 2017, 12, e0176796.	2.5	7
28	Inhibition of myeloperoxidase increases revascularization and improves blood flow in a diabetic mouse model of hindlimb ischaemia. <i>Diabetes and Vascular Disease Research</i> , 2020, 17, 147916412090797.	2.0	5
29	In Vivo Characterization of a Red Light-Activated Vasodilation: A Photobiomodulation Study. <i>Frontiers in Physiology</i> , 2022, 13, 880158.	2.8	5
30	Intralipid Increases Nitric Oxide Release from Human Endothelial Cells During Oxidative Stress. <i>Journal of Parenteral and Enteral Nutrition</i> , 2021, 45, 295-302.	2.6	3
31	Electromagnetic energy (670 nm) stimulates vasodilation through activation of the large conductance potassium channel (BKCa). <i>PLoS ONE</i> , 2021, 16, e0257896.	2.5	2
32	Non-thermal Infrared Light Treatment of Ischemia/Reperfusion Injury and Subsequent Analysis of Macrophage Differentiation. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	1
33	A novel path of improving heart function after infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 84, 200-201.	1.9	0
34	Vasodilation of Isolated Vessels and the Isolation of the Extracellular Matrix of Tight-skin Mice. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	0
35	Activation of Matrix Metalloproteinase β and Expression of Angiostatin Play an Important Role in Angiogenesis in Diabetics with Peripheral Vascular Occlusive Disease. <i>FASEB Journal</i> , 2007, 21, A193.	0.5	0
36	Role of VDAC in vascular responses to isoflurane.. <i>FASEB Journal</i> , 2008, 22, 744.20.	0.5	0

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37	Effects of Infrared Light on Release of NO and SO in Osteoblasts. FASEB Journal, 2009, 23, 647.9.	0.5	0
38	Transient alkalosis during early reperfusion blocks helium preconditioning against myocardial infarction: restoration of protection by cyclosporin A. FASEB Journal, 2009, 23, 793.23.	0.5	0
39	An α -Tubulin-Dependent Mechanism for Isoflurane-Mediated Cardioprotection. FASEB Journal, 2011, 25, 1085.9.	0.5	0
40	Knockout of type VI collagen improves cardiac function and remodeling following myocardial infarction. FASEB Journal, 2012, 26, 1060.13.	0.5	0
41	Selective Inhibition of HDAC6 is Cardioprotective in an Endothelial Cell/Cardiomyocyte Co-Culture Model. FASEB Journal, 2012, 26, 1b527.	0.5	0
42	Acute Administration of PPAR β Agonist Rosiglitazone in Isolated Hearts Differentially Aggravates Cardiac Ischemia Reperfusion Injury in a Consomic Rat Model. FASEB Journal, 2013, 27, 917.4.	0.5	0
43	PPAR β -Independent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts. FASEB Journal, 2015, 29, 979.2.	0.5	0
44	Lipid Profile Comparison between Arctic Ground Squirrels and Brown Norway Rats – Implications for Cardioprotection. FASEB Journal, 2015, 29, 980.5.	0.5	0
45	670nm light exposure increases the number of exosomes in the vessel bath and the number of endosomes in endothelial cells. FASEB Journal, 2019, 33, 716.1.	0.5	0
46	Red Light Mitigates the Deteriorating Placental Extracellular Matrix in Late Onset of Preeclampsia and Improves the Trophoblast Behavior. Journal of Pregnancy, 2022, 2022, 1-10.	2.4	0