

Michael Zaugg

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94 papers	4,884 citations	37 h-index	69 g-index
104 ext. papers	5,377 ext. citations	5.6 avg, IF	4.97 L-index

#	Paper	IF	Citations
94	General anesthetic actions in vivo strongly attenuated by a point mutation in the GABA(A) receptor beta3 subunit. <i>FASEB Journal</i> , 2003 , 17, 250-2	0.9	478
93	Preconditioning by sevoflurane decreases biochemical markers for myocardial and renal dysfunction in coronary artery bypass graft surgery: a double-blinded, placebo-controlled, multicenter study. <i>Anesthesiology</i> , 2003 , 98, 1315-27	4.3	289
92	New insights into doxorubicin-induced cardiotoxicity: the critical role of cellular energetics. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 41, 389-405	5.8	241
91	Volatile anesthetics mimic cardiac preconditioning by priming the activation of mitochondrial K(ATP) channels via multiple signaling pathways. <i>Anesthesiology</i> , 2002 , 97, 4-14	4.3	225
90	Beneficial effects from beta-adrenergic blockade in elderly patients undergoing noncardiac surgery. <i>Anesthesiology</i> , 1999 , 91, 1674-86	4.3	190
89	Beta-adrenergic receptor subtypes differentially affect apoptosis in adult rat ventricular myocytes. <i>Circulation</i> , 2000 , 102, 344-50	16.7	180
88	Isoflurane postconditioning prevents opening of the mitochondrial permeability transition pore through inhibition of glycogen synthase kinase 3beta. <i>Anesthesiology</i> , 2005 , 103, 987-95	4.3	162
87	Cardiac insulin-resistance and decreased mitochondrial energy production precede the development of systolic heart failure after pressure-overload hypertrophy. <i>Circulation: Heart Failure</i> , 2013 , 6, 1039-48	7.6	142
86	Translocation of protein kinase C isoforms to subcellular targets in ischemic and anesthetic preconditioning. <i>Anesthesiology</i> , 2003 , 99, 138-47	4.3	125
85	Ischemic postconditioning protects remodeled myocardium via the PI3K-PKB/Akt reperfusion injury salvage kinase pathway. <i>Cardiovascular Research</i> , 2006 , 72, 152-62	9.9	121
84	Differential effects of anesthetics on mitochondrial K(ATP) channel activity and cardiomyocyte protection. <i>Anesthesiology</i> , 2002 , 97, 15-23	4.3	117
83	Remote ischemic preconditioning applied during isoflurane inhalation provides no benefit to the myocardium of patients undergoing on-pump coronary artery bypass graft surgery: lack of synergy or evidence of antagonism in cardioprotection?. <i>Anesthesiology</i> , 2012 , 116, 296-310	4.3	115
82	Antiproliferative effects of local anesthetics on mesenchymal stem cells: potential implications for tumor spreading and wound healing. <i>Anesthesiology</i> , 2012 , 116, 841-56	4.3	114
81	Acute toxicity of doxorubicin on isolated perfused heart: response of kinases regulating energy supply. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H37-47	5.2	108
80	Perioperative beta-adrenergic receptor blockade: physiologic foundations and clinical controversies. <i>Anesthesiology</i> , 2004 , 100, 170-5	4.3	104
79	Respiratory function in the elderly. <i>Anesthesiology Clinics</i> , 2000 , 18, 47-58, vi		96
78	Sevoflurane inhalation at sedative concentrations provides endothelial protection against ischemia-reperfusion injury in humans. <i>Anesthesiology</i> , 2007 , 106, 262-8	4.3	91

77	Adrenergic receptor genotype but not perioperative bisoprolol therapy may determine cardiovascular outcome in at-risk patients undergoing surgery with spinal block: the Swiss Beta Blocker in Spinal Anesthesia (BBSA) study: a double-blinded, placebo-controlled, multicenter trial with 1-year follow-up. <i>Anesthesiology</i> , 2007 , 107, 33-44	4.3	86
76	Phosphoproteome analysis of isoflurane-protected heart mitochondria: phosphorylation of adenine nucleotide translocator-1 on Tyr194 regulates mitochondrial function. <i>Cardiovascular Research</i> , 2008 , 80, 20-9	9.9	85
75	Trigger-dependent gene expression profiles in cardiac preconditioning: evidence for distinct genetic programs in ischemic and anesthetic preconditioning. <i>Anesthesiology</i> , 2004 , 100, 474-88	4.3	83
74	TMX1 determines cancer cell metabolism as a thiol-based modulator of ER-mitochondria Ca ²⁺ flux. <i>Journal of Cell Biology</i> , 2016 , 214, 433-44	7.3	81
73	Gene regulatory control of myocardial energy metabolism predicts postoperative cardiac function in patients undergoing off-pump coronary artery bypass graft surgery: inhalational versus intravenous anesthetics. <i>Anesthesiology</i> , 2007 , 106, 444-57	4.3	76
72	Anabolic-androgenic steroids induce apoptotic cell death in adult rat ventricular myocytes. <i>Journal of Cellular Physiology</i> , 2001 , 187, 90-5	7	76
71	Video-assisted thoracoscopic volume reduction surgery in patients with diffuse pulmonary emphysema: gas exchange and anesthesiological management. <i>Anesthesia and Analgesia</i> , 1997 , 84, 845-51	3.9	71
70	Extrapulmonary and disseminated infections due to <i>Mycobacterium malmoense</i> : case report and review. <i>Clinical Infectious Diseases</i> , 1993 , 16, 540-9	11.6	70
69	Norepinephrine-induced apoptosis is inhibited in adult rat ventricular myocytes exposed to volatile anesthetics. <i>Anesthesiology</i> , 2000 , 93, 209-18	4.3	64
68	Inhibition of LINE-1 expression in the heart decreases ischemic damage by activation of Akt/PKB signaling. <i>Physiological Genomics</i> , 2006 , 25, 314-24	3.6	62
67	Substantial changes in arterial blood gases during thoracoscopic surgery can be missed by conventional intermittent laboratory blood gas analyses. <i>Anesthesia and Analgesia</i> , 1998 , 87, 647-53	3.9	61
66	Accidental pleural puncture by a thoracic epidural catheter. <i>Anaesthesia</i> , 1998 , 53, 69-71	6.6	60
65	Differential activation of mitogen-activated protein kinases in ischemic and anesthetic preconditioning. <i>Anesthesiology</i> , 2004 , 100, 59-69	4.3	60
64	Infarct-remodeled myocardium is receptive to protection by isoflurane postconditioning: role of protein kinase B/Akt signaling. <i>Anesthesiology</i> , 2006 , 104, 1004-14	4.3	58
63	Signaling and cellular mechanisms in cardiac protection by ischemic and pharmacological preconditioning. <i>Journal of Muscle Research and Cell Motility</i> , 2003 , 24, 219-49	3.5	57
62	Tyrosine phosphorylation by Src within the cavity of the adenine nucleotide translocase 1 regulates ADP/ATP exchange in mitochondria. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 298, C740-8	5.4	49
61	Fatal air embolism in an airplane passenger with a giant intrapulmonary bronchogenic cyst. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1998 , 157, 1686-9	10.2	48
60	Video-Assisted Thoracoscopic Volume Reduction Surgery in Patients with Diffuse Pulmonary Emphysema. <i>Anesthesia and Analgesia</i> , 1997 , 84, 845-851	3.9	44

59	The mechanism of Intralipid [®] -mediated cardioprotection complex IV inhibition by the active metabolite, palmitoylecarnitine, generates reactive oxygen species and activates reperfusion injury salvage kinases. <i>PLoS ONE</i> , 2014 , 9, e87205	3.7	43
58	Integration of calcium with the signaling network in cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 41, 183-214	5.8	42
57	Preconditioning by isoflurane retains its protection against ischemia-reperfusion injury in postinfarct remodeled rat hearts. <i>Anesthesia and Analgesia</i> , 2008 , 106, 17-23, table of contents	3.9	32
56	Molecular evidence of late preconditioning after sevoflurane inhalation in healthy volunteers. <i>Anesthesia and Analgesia</i> , 2007 , 105, 629-40	3.9	32
55	Ischemic but not pharmacological preconditioning elicits a gene expression profile similar to unprotected myocardium. <i>Physiological Genomics</i> , 2004 , 20, 117-30	3.6	32
54	Anesthetic cardioprotection in clinical practice from proof-of-concept to clinical applications. <i>Current Pharmaceutical Design</i> , 2014 , 20, 5706-26	3.3	32
53	Early mitochondrial dysfunction in glycolytic muscle, but not oxidative muscle, of the fructose-fed insulin-resistant rat. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 306, E658-67	6	29
52	Early effects of doxorubicin in perfused heart: transcriptional profiling reveals inhibition of cellular stress response genes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010 , 298, R1075-88	3.2	29
51	Candidate genes and mechanisms for 2-methoxyestradiol-mediated vasoprotection. <i>Hypertension</i> , 2010 , 56, 964-72	8.5	26
50	Metabolic profiling of hearts exposed to sevoflurane and propofol reveals distinct regulation of fatty acid and glucose oxidation: CD36 and pyruvate dehydrogenase as key regulators in anesthetic-induced fuel shift. <i>Anesthesiology</i> , 2010 , 113, 541-51	4.3	25
49	Infarct-remodelled hearts with limited oxidative capacity boost fatty acid oxidation after conditioning against ischaemia/reperfusion injury. <i>Cardiovascular Research</i> , 2013 , 97, 251-61	9.9	24
48	Stem cell-like human endothelial progenitors show enhanced colony-forming capacity after brief sevoflurane exposure: preconditioning of angiogenic cells by volatile anesthetics. <i>Anesthesia and Analgesia</i> , 2009 , 109, 1117-26	3.9	24
47	External irradiation of macroinvasive pituitary adenomas with telecobalt: a retrospective study with long-term follow-up in patients irradiated with doses mostly of between 40-45 Gy. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995 , 32, 671-80	4	24
46	Helium breathing provides modest antiinflammatory, but no endothelial protection against ischemia-reperfusion injury in humans in vivo. <i>Anesthesia and Analgesia</i> , 2009 , 109, 101-8	3.9	22
45	Cardiac remodelling hinders activation of cyclooxygenase-2, diminishing protection by delayed pharmacological preconditioning: role of HIF1 alpha and CREB. <i>Cardiovascular Research</i> , 2008 , 78, 98-107	9.9	20
44	Choice of anesthetic combination determines Ca ²⁺ leak after ischemia-reperfusion injury in the working rat heart: favorable versus adverse combinations. <i>Anesthesiology</i> , 2012 , 116, 648-57	4.3	18
43	Atenolol may not modify anesthetic depth indicators in elderly patients--a second look at the data. <i>Canadian Journal of Anaesthesia</i> , 2003 , 50, 638-42	3	18
42	Alterations in fatty acid metabolism and sirtuin signaling characterize early type-2 diabetic hearts of fructose-fed rats. <i>Physiological Reports</i> , 2017 , 5, e13388	2.6	17

41	Genomics in cardiac metabolism. <i>Cardiovascular Research</i> , 2008 , 79, 218-27	9.9	17
40	Genetic modulation of adrenergic activity in the heart and vasculature: implications for perioperative medicine. <i>Anesthesiology</i> , 2005 , 102, 429-46	4.3	17
39	Substantial Changes in Arterial Blood Gases During Thoracoscopic Surgery Can Be Missed by Conventional Intermittent Laboratory Blood Gas Analyses. <i>Anesthesia and Analgesia</i> , 1998 , 87, 647-653	3.9	15
38	Patterns of changes in arterial PO ₂ during one-lung ventilation: a comparison between patients with severe pulmonary emphysema and patients with preserved lung function. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2005 , 19, 479-84	2.1	14
37	Propofol (Diprivan®) and Intralipid® exacerbate insulin resistance in type-2 diabetic hearts by impairing GLUT4 trafficking. <i>Anesthesia and Analgesia</i> , 2015 , 120, 329-40	3.9	13
36	The ER chaperone calnexin controls mitochondrial positioning and respiration. <i>Science Signaling</i> , 2020 , 13,	8.8	13
35	Is protection by inhalation agents volatile? Controversies in cardioprotection. <i>British Journal of Anaesthesia</i> , 2007 , 99, 603-6	5.4	12
34	Unraveling Interactions Between Anesthetics and the Endothelium: Update and Novel Insights. <i>Anesthesia and Analgesia</i> , 2016 , 122, 330-48	3.9	11
33	Delayed inhibition of agonist-induced granulocyte-platelet aggregation after low-dose sevoflurane inhalation in humans. <i>Anesthesia and Analgesia</i> , 2008 , 106, 1749-58	3.9	11
32	Differential Effects of Anesthetics and Opioid Receptor Activation on Cardioprotection Elicited by Reactive Oxygen Species-Mediated Postconditioning in Sprague-Dawley Rat Hearts. <i>Anesthesia and Analgesia</i> , 2018 , 126, 1739-1746	3.9	10
31	Interleukin balance and early recovery from anesthesia in elderly surgical patients exposed to beta-adrenergic antagonism. <i>Journal of Clinical Anesthesia</i> , 2003 , 15, 170-8	1.9	10
30	Postconditioning with Intralipid emulsion protects against reperfusion injury in post-infarct remodeled rat hearts by activation of ROS-Akt/Erk signaling. <i>Translational Research</i> , 2017 , 186, 36-51.e2 ¹¹		9
29	Loss of Intralipid® - but not sevoflurane-mediated cardioprotection in early type-2 diabetic hearts of fructose-fed rats: importance of ROS signaling. <i>PLoS ONE</i> , 2014 , 9, e104971	3.7	9
28	2-Methoxyestradiol blocks the RhoA/ROCK1 pathway in human aortic smooth muscle cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E995-1007	6	8
27	Remote ischemic preconditioning is redundant in patients undergoing coronary artery bypass graft surgery who are already protected by volatile anesthetics. <i>Circulation Research</i> , 2012 , 110, e42-3; author reply e44-5	15.7	8
26	How often should we perform arterial blood gas analysis during thoracoscopic surgery?. <i>Journal of Clinical Anesthesia</i> , 2007 , 19, 569-75	1.9	7
25	Sudden Respiratory Arrest Resulting From Brainstem Embolism in a Patient Undergoing Endovascular Abdominal Aortic Aneurysm Repair. <i>Anesthesia and Analgesia</i> , 2001 , 92, 335-337	3.9	7
24	Enhanced myocardial protection in cardiac donation after circulatory death using Intralipid postconditioning in a porcine model. <i>Canadian Journal of Anaesthesia</i> , 2019 , 66, 672-685	3	6

23	A Large Trial Is Vital to Prove Perioperative Blockade Effectiveness and Safety before Widespread Use. <i>Anesthesiology</i> , 2004 , 101, 804-805	4.3	6
22	Pragmatic treatment versus elaborate but incomplete testing: a Hobson's choice?. <i>Anesthesiology</i> , 2007 , 107, 526-9	4.3	6
21	Nutritional Lipids and Mucosal Inflammation. <i>Molecular Nutrition and Food Research</i> , 2021 , 65, e1901269	5.9	6
20	Letter by Zaugg and Lucchinetti regarding article, "Randomized comparison of sevoflurane versus propofol to reduce perioperative myocardial ischemia in patients undergoing noncardiac surgery". <i>Circulation</i> , 2013 , 127, e875	16.7	5
19	Quantitative profiling of inflammatory and pro-resolving lipid mediators in human adolescents and mouse plasma using UHPLC-MS/MS. <i>Clinical Chemistry and Laboratory Medicine</i> , 2021 , 59, 1811-1823	5.9	5
18	Sevoflurane--compared with propofol-based anesthesia reduces the need for inotropic support in patients undergoing abdominal aortic aneurysm repair: evidence of cardioprotection by volatile anesthetics in noncardiac surgery. <i>Anesthesiology</i> , 2014 , 120, 1289-90	4.3	4
17	Lipid Emulsion Containing High Amounts of n3 Fatty Acids (Omegaven) as Opposed to n6 Fatty Acids (Intralipid) Preserves Insulin Signaling and Glucose Uptake in Perfused Rat Hearts. <i>Anesthesia and Analgesia</i> , 2020 , 130, 37-48	3.9	4
16	Sudden respiratory arrest resulting from brainstem embolism in a patient undergoing endovascular abdominal aortic aneurysm repair. <i>Anesthesia and Analgesia</i> , 2001 , 92, 335-7	3.9	2
15	Novel Strategies to Prevent Total Parenteral Nutrition-Induced Gut and Liver Inflammation, and Adverse Metabolic Outcomes. <i>Molecular Nutrition and Food Research</i> , 2021 , 65, e1901270	5.9	2
14	Choice of Lipid Emulsion Determines Inflammation of the Gut-Liver Axis, Incretin Profile, and Insulin Signaling in a Murine Model of Total Parenteral Nutrition. <i>Molecular Nutrition and Food Research</i> , 2021 , 65, e2000412	5.9	1
13	Diet and Inflammatory Bowel Disease: What Quality Standards Should Be Applied in Clinical and Laboratory Studies?. <i>Molecular Nutrition and Food Research</i> , 2021 , 65, e2000514	5.9	1
12	Is Continuous Intraarterial Blood Gas Monitoring Reliable During One-Lung Ventilation?. <i>Anesthesia and Analgesia</i> , 1999 , 88, 1192-1193	3.9	0
11	Leberchirurgische Eingriffe aus anästhesiologischer Sicht. <i>Gastroenterologe</i> , 2009 , 4, 294-300	0.1	
10	Is There Any Reason to Withhold β -Agonists from Patients with Coronary Disease during Surgery?. <i>Anesthesiology</i> , 2004 , 101, 1245-1245	4.3	
9	Is Continuous Intraarterial Blood Gas Monitoring Reliable During One-Lung Ventilation?. <i>Anesthesia and Analgesia</i> , 1999 , 88, 1192-1193	3.9	
8	Heart rate control and ischemia. <i>Anesthesia and Analgesia</i> , 1999 , 89, 801	3.9	
7	Heart Rate Control and Ischemia. <i>Anesthesia and Analgesia</i> , 1999 , 89, 801	3.9	
6	Limitations of Genetic Findings That Are Not in Hardy-Weinberg Equilibrium. <i>Anesthesiology</i> , 2008 , 108, 338-339	4.3	

5	Diabetic Rat Hearts Show More Favorable Metabolic Adaptation to Omegaven Containing High Amounts of n3 Fatty Acids Than Intralipid Containing n6 Fatty Acids. <i>Anesthesia and Analgesia</i> , 2020 , 131, 943-954	3.9
4	Comment on Kolwicz et al. Enhancing Cardiac Triacylglycerol Metabolism Improves Recovery From Ischemic Stress. <i>Diabetes</i> 2015;64:2817-2827. <i>Diabetes</i> , 2016 , 65, e18	0.9
3	Metabolite Palmitoylcarnitine Mediates Intralipid Cardioprotection Rather Than Membrane Receptors. <i>Anesthesiology</i> , 2019 , 130, 518-519	4.3
2	A brief history of M. C. Schaub@legacies: a life dedicated to heart and muscle research : In memoriam Marcus C. Schaub (1936-2018). <i>Journal of Muscle Research and Cell Motility</i> , 2018 , 39, 61-63	3.5
1	Daytime variations in perioperative myocardial injury. <i>Lancet, The</i> , 2018 , 391, 2104-2105	40