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CURRICULUM VITAE

Zeljko Bosnjak PhD, MS

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EDUCATION:

1969 BS, University of Zagreb, Zagreb, Croatia
1972 MT, Marquette University, Milwaukee, WI
1979 PhD, Medical College of Wisconsin, Milwaukee, WI

FACULTY APPOINTMENTS:

1979 - 1981 Research Associate, Anesthesia Research Laboratory, Medical College of Wisconsin, Milwaukee, WI 53226
1981 - 1984 Assistant Professor, Departments of Anesthesiology and Physiology, Medical College of Wisconsin, Milwaukee, WI 53226
1984 - 1989 Associate Professor, Departments of Anesthesiology and Physiology, Medical College of Wisconsin, Milwaukee, WI 53226
1989 - Present Professor, Departments of Anesthesiology and Physiology, Medical College of Wisconsin, Milwaukee, WI 53226
2003 - 2017 Vice Chairman for Research, Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, WI 53226
03/01/2018 - Present Professor, Department of Medicine and Physiology, Medical College of Wisconsin, Milwaukee, WI 53226

AWARDS AND HONORS:

1982 NHLBI New Investigator Research Award "Ganglionic Modulation of Cardiac Autonomic Activity", National Heart, Lung, and Blood Institute
1986 IARS B.B. Sankey Anesthesia Advancement Award "Effect of Chronic Administration of Calcium Antagonists", International Anesthesia Research Society
1987 NHLBI Research Career Development Award "General Anesthesia and Cardiovascular Regulation", National Heart, Lung, and Blood Institute
1999 Republic of Croatia, Presidential medal "Northern Star" Rudjer Boskovic, National Decoration for Science
2001 President, World Association of Croatian Physicians
2004 Honorary doctorate degree from the University of Split, Split, Croatia, University of Split
2004 Evaluation Board Member, Faculty of 1000 Medicine
2006 Member, The National Foundation for Science of the Republic of Croatia
2006 Republic of Croatia, Presidential medal "Northern Star" Katarina Zrinski, National Decoration for Humanitarian Work
2008 ASA Excellence in Research Award, American Society of Anesthesiologists
2011 - Present Fellow of the American Heart Association (F.A.H.A.) , American Heart Association
2019 European Award for the promotion of International Relations, The University of Zagreb School of

Medicine, Croatia

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

1979 British Brain Research Association
1979 European Brain and Behavior Society
1979 Society for Neurosciences
1979 American Physiological Society
1981 Society for Experimental Biology and Medicine
1983 American Association for the Advancement of Science
1984 - Present International Anesthesia Research Society
1986 - Present American Society of Anesthesiologists
1986 - Present Wisconsin Society of Anesthesiologists
1987 Cardiac Muscle Society
1989 Biophysical Society
1989 - Present Association of University Anesthesiologists
1990 - Present American Heart Association
1991 - Present Advisory Board: Croatian Medical Journal
1991 Board of Trustees: Croatian Institute for Brain Research
2003 German Anesthesia Society
2005 - Present Academy of Anesthesiology Mentors
2010 - Present International Society for Stem Cell Research
2013 - Present Malignant Hyperthermia Association of the United States (MHAUS)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorship
The Cardiovascular and Thoracic Anesthesia Journal Club
Editorial Board
Medicinski Vjesnik, Croatia
Croatian Medical Journal, Croatia
Acta Anaesthesiologica Croatica
Journal of Anesthesia, Japan
Journal Review
American Journal of Physiology
Canadian Journal of Physiology and Pharmacology
Hypertension
Brain Research
Croatian Medical Journal
Anesthesiology
Anesthesia and Analgesia

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

1984 - 1988 Session Chairman, FASEB Annual Meeting, American Physiological Society
1987 Member, National Science Foundation
1988 Member, Study Section II, National Institutes of Health Clinical Sciences
1989 Member, Special Review Committee, National Institute on Drug Abuse
1990 Member, Pharmacology II Study Section, National Institute on Drug Abuse
1990 Member, Contract Review Committee, National Institute on Drug Abuse
1990 Ad Hoc Surgery Member, Anesthesiology and Trauma Study Section, National Institutes of Health
1991 Site Visit- Vanderbilt University, HLBI Institute, National Institutes of Health
1991 Member, Pharmacology II Study Section, National Institute on Drug Abuse
1991 Site Visit- University of Virginia, HLBI Institute, National Institutes of Health
1991 - 1994 Member, Scientific Advisory Board, Association of University Anesthesiologists
1991 Reviewer, Medical Research Council of Canada
1991 Member, Pharmacology II Subcommittee, National Institute on Drug Abuse
1992 Site Visit- Vanderbilt University, HLBI Institute, National Institutes of Health
1992 - 1993 Session Chairman, FASEB Annual Meeting, American Physiological Society
1992 Session Chairman, Annual Meeting, American Society of Anesthesiologists

1992 Member, Subcommittee on Exp. Circulation, American Society of Anesthesiologists
1993 - 1999 Associate Editor, Anesthesiology
1993 - 1995 Reviewer, American Heart Association of Wisconsin
1994 - 1995 Session Chairman, Annual Meeting, American Society of Anesthesiologists
1994 - 1995 Member, Subcommittee on Exp. Circulation, American Society of Anesthesiologists
1995 Member, Special Review Committee, National Institute on Drug Abuse
1996 Site Visit - University of Pennsylvania, HLBI Institute, National Institutes of Health
1997 External Advisory Board Member, IARS Frontiers in Anesthesia Research Award, International Anesthesia Research Society
1997 - 1998 Ad Hoc - Surgery Member, Anesthesiology and Trauma Study Section, National Institutes of Health
1999 Special Review Committee Member, AG Institute, National Institutes of Health
1999 - 2008 Editor, Anesthesiology
2000 Chairman - External Advisory Board, Frontiers in Anesthesia Research Award, International Anesthesia Research Society
2000 - 2003 Surgery - Member, Anesthesiology and Trauma Study Section, National Institutes of Health
2003 - 2005 Chairman - Surgery, Anesthesiology and Trauma Study Section, National Institutes of Health
2003 Member, Subcommittee on Anesthetic Action and Biochemistry, American Society of Anesthesiologists
2006 Chairman, Ad Hoc - SAT Study Section Conflicts, National Institutes of Health
2006 Member, Approval Committee, Unity through Knowledge Fund, Croatia
2008 Member, Committee on Excellence in Research, American Society of Anesthesiologists

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International

"Ganglionic Modulations of Cardiac Autonomic Activity", Croatian Physiological Society, Zagreb, Croatia, 08/1984
"Long term effects of calcium antagonists", Croatian Physiological Society, Zagreb, Croatia, 06/1986
"Neuronal integration in the peripheral sympatheticganglia", Semmelweis Medical University, Budapest, Hungary, 06/1988
"Inhalational anesthetics and calcium sensitivity", University of Paris--Sud, Orsay, France, 07/1989
"Cellular effects of anesthetics", University of Graz, Graz, Austria, 05/1992
"Mechanism of myocardial contraction and the effects of anesthetics", University of Zagreb, Zagreb, Croatia, 05/1992
"Inhalational Anesthesia", Munich, Germany, 03/1993
"Cardiac Electrophysiology", Split, Croatia, 03/1993
"Mechanisms and management of cardiac dysrhythmias" and "Effects of E047/1 on cardiac electrophysiology", Salzburg, Austria, 10/1993
"Ion channels in vascular smooth muscle", Leuven, Belgium, 10/1993
"Cardioprotective effects of BPC" and "Mechanisms and management of cardiac dysrhythmias", University of Zagreb, Zagreb, Croatia, 11/1993
"Cardiac cellular effects of anesthetics", Split, Croatia, 06/1994
"Cellular effects of anesthetics in the heart", Heidelberg, Germany, 10/1995
"Cellular effects of anesthetics" and "Mechanisms f cardiac dysrhythmias during anesthesia", Asahikawa, Fukuoka, and Sapporo, Japan, 09/1996
"Mechanisms of cardiac dysrhythmias during anesthesia", Heidelberg, Germany, 11/1996
"Cardiac effects of anesthetics", Mostar, Bosnia and Herzegovina, 11/1996
"Anesthetics and cardiac electrophysiology", Opatija, Croatia, 05/1997
"Anesthetics and cardiac signal transduction", Frankfurt, Germany, 07/1998
"Volatile anesthetic-induced cardioprotection", Asahikawa, Sapporo, Tokyo, and Toyama, Japan, 05/1999
"Cellular effects of anesthetics in the heart", Graz, Austria & Zagreb, Croatia, 09/1999
"Anesthesiology Research in 21st Century" and "How to write and publish the manuscripts", Japanese Society of Anesthesiologists Annual Meeting, Kobe, Japan, 04/2001
"Anesthetic-induced cardiac preconditioning", International Conference on Molecular and Basic Mechanisms of Anesthesia, Gustav-Stresemann-Institute, University of Bonn, Bonn, Germany, 06/2001
"Cardiac protection", Split, Croatia, 09/2001
"Role of diaspora in Croatian science", WACP Meeting, Zagreb, Croatia, 05/2002
"Anesthesiology Research in 21st Century", Wurzburg, Germany, 04/2003

"Cardioprotective effects of anesthetics" and "Anesthesiology Research in 21st Century", Aegean Anesthesia Conference, Crete, Greece, 05/2003
"Role of Diaspora in Advancement of Croatian Science", Split, Croatia, 09/2003
"Cardiac preconditioning against ischemia/reperfusion injury", Croatian Cardiac Society Meeting, Opatija, Croatia, 05/2004
"Role of Diaspora in Advancement of Croatian Science", Visiting Professor, Zagreb, Croatia, 11/2004
“Does Basic Research in Cardiac Anesthesia Improve the Clinical Outcome?”, Fast Track Anesthesia Conference, University of Athens,, Athens, Greece, 03/2005
"Future of anesthesiology research", University of Rijeka, Rijeka, Croatia, 05/2005
"Anesthetic-induced preconditioning", Anesthesia Symposium, Dubrovnik, Croatia., 05/2005
"Cardiac preconditioning by volatile anesthetics", Visiting Professor, Trondheim, Norway, 09/2005
"Anesthesiology research in the 21st century", Visiting Professor, University of Zagreb, Zagreb, Croatia, 09/2005
"Future of anesthesiology research", University of Zagreb, Zagreb, Croatia, 06/2006
"Cardiac Preconditioning", Alpa-Adria Anesthesia Symposium, Opatija, Croatia, 09/2006
"Anesthetic-induced preconditioning" and "How to write and publish the manuscripts in Anesthesiology", Japan Society of Clinical Anesthesiology, Asahikawa, Sapporo, and Tokyo, Japan, 10/2006
"Anesthetics and cardioprotection", Co-organizer, European-American Anesthesia Conference, Dubrovnik, Croatia, 05/2007
"Anesthetic preconditioning", Goettingen, Germany, 10/2007
"History of Anesthesiology Research", Heidelberg, Germany, 10/2007
"Anesthetic-induced protection", Zagreb Medical School, Zagreb, Croatia, 10/2008
"Protection against Ischemia and Reperfusion Injury", Jerusalem, Israel, 12/2008
"Cardiac Protection with Inhalational Anesthetics", Co-organizer, European-American Anesthesia Conference, Dubrovnik, Croatia, 04/2009
"Human embryonic and induced pluripotent stem cell-derived cardiomyocytes and anesthetic cardiac preconditioning", University of Rijeka, Rijeka, Croatia, 12/2009
"The use of induced pluripotent stem cells in anesthesia research", University of Regensburg, Regensburg, Germany, 12/2009
"Protection against ischemia and reperfusion injury" and "Cardiac protection with inhalational anesthetics", Seoul National University, Seoul, South Korea, 04/2010
"Cardiac protection with inhalational anesthetics" and "Human embryonic and induced pluripotent stem cells-derived cardiomyocytes and cardiac preconditioning", Annual Meeting of KSCVA, Daegu, South Korea, 04/2010
"Human stem cell-derived cardiomyocytes and anesthetic preconditioning", "Developmental neurotoxicity", "Organoprotection by volatile anesthetics", and "Brain protection during cardiac surgery", Co-organizer, European-American Anesthesia Conference, Dubrovnik, Croatia, 05/2011
"Stem cell biology and anesthesia research", "Neurotoxicity of anaesthetic agents", and "Brain Preconditioning: Is there a challenge?", 19th Panhellenic Congress of Anaesthesiology, Alexandroupolis, Greece, 05/2011

National

"Cellular Characteristics of the Stellate Ganglion and their Relationship to Cardiac Function", FASEB Summer Research Conference, Saxtons River, Vermont, 06/1984
"Effects of Verapamil and Halothane on Changes of Intracellular Free Calcium Concentrations, Transmembrane Potentials and Contractile Properties of the Papillary Muscle", Research Workshop: Interaction between Calcium Channel Blockers and Anesthesia, Houston, Texas, 09/1984
"Integrative neuromodulation in paravertebral ganglia", FASEB Symposium: Ganglionic control of autonomic effector systems, Anaheim, California, 04/1985
"Sensory mechanisms in sympathetic ganglia" and "Pulmonary and cardiovascular afferents to the stellate ganglion", Neuromuscular Symposium, Dallas, Texas, 10/1985
"Cardiac protection with halothane associated with post-ischemia or calcium paradox in isolated guinea pig hearts", VIIth International Spring Symposium:Cell Calcium Metabolism, Washington, DC, 05/1987
"Differential effects of halothane, enflurane, and isoflurane on calcium currents and transients", Workshop on subcellular mechanisms of anesthetic action in muscle., Augusta, Georgia, 09/1988
"Effects of inhalational anesthetics on calcium currents and transients", Emory University, Atlanta, Georgia, 03/1989

"Cardiac Electrophysiology", Department of Anesthesiology, The Johns Hopkins University, Baltimore, Maryland, 06/1989
"Suppression of cardiac Ca2+channel currents by halothane, enflurane, and isoflurane", Association of University Anesthesiologists (AUA) Meeting, Seattle, Washington, 05/1990
"Mechanisms of anesthetic action in cardiac muscle", Symposium, Baltimore, Maryland, 09/1990
"Effects of anesthetics on myocardial contractility", Clemson University, Clemson, South Carolina, 03/1991
"Effects of halothane on calcium and potassium currents in isolated smooth muscle cells of dog coronary arteries", Association of University Anesthesiologists (AUA) Meeting, Philadelphia, Pennsylvania, 05/1991
"Receptor Pharmacology", Department of Anesthesiology, Washington University, St Louis, Missouri, 10/1991
"Smooth Muscle Electrophysiology", American Society of Anesthesiologists (ASA) Meeting, San Francisco, California, 10/1992
"Cellular effects of anesthetics in the heart", Massachusetts General Hospital, Boston, Massachusetts, 01/1995
"Cellular mechanisms of anesthetics", Columbia University, New York, New York, 04/1997
"Cardioprotective effects of anesthetics", Cleveland Clinic Foundation, Cleveland, Ohio, 06/2000
"Myocardial Protection", American Society of Anesthesiologists (ASA) Annual Meeting, Panel on Organ Protection, San Francisco, California, 10/2000
"Effects of anesthetics on the Heart", Brigham & Women's Hospital, Boston, Massachusetts, 11/2000
"Anesthesiology Research in 21st Century" and "Anesthetic-induced cardiac preconditioning", Visiting Professor, UCLA, Los Angeles, California, 02/2004
"Cardiac protection", Visiting Professor, Louisiana State University, New Orleans, Louisiana, 10/2004
The Twenty-Eighth Emanuel M. Papper Lecture: "Anesthetic-induced cardioprotection", Visiting Professor, Columbia University, New York, New York, 12/2004
"Anesthetic-Induced Cardioprotection", Massachusetts General Hospital, Boston, Massachusetts, 06/2006
"Basic Cardiac Electrophysiology", Brigham & Women's Hospital, Boston, Massachusetts, 11/2006
"Protection against ischemia-reperfusion injury", American Society of Anesthesiologists (ASA) Meeting, San Francisco, California, 10/2007
"Role of mitochondria in APC", MCW, Department of Physiology, Milwaukee, Wisconsin, 12/2007
"Protection against ischemia", Rutgers New Jersey Medical School (UMDNJ), Newark, New Jersey, 06/2008
"Successful Approaches to Mentoring", American Society of Anesthesiologists (ASA) Annual Meeting, Orlando, Florida, 10/2008
"6th Annual Celebration of Research", American Society of Anesthesiologists (ASA) Annual Meeting, Orlando, Florida, 10/2008
"Cardiomyocytes Derived from Human Embryonic Stem Cells as a Model of Anesthetic Preconditioning", Galveston, Texas, 04/2009

Regional

"Sympathetic Ganglionic Reflexes", Cardiac Neuro-Control Symposium, Chicago, Illinois, 04/1981
"The Effects of Halothane and Calcium Channel Blockers on Transmembrane Potentials Intracellular Calcium Ion Transients and Contractile Properties of Cat Papillary Muscle", Association of University Anesthesiologists (AUA) meeting, Madison, Wisconsin, 05/1984
"Cardiac electrophysiology- automaticity"; "Cardiac electrophysiology-conduction"; "Cardiac effects of anesthetics", University of Chicago, Chicago, Illinois, 05/1991
"Myocardial Protection", Dept. of Anesthesiology, University of Wisconsin--Madison, Madison, Wisconsin, 11/2002
"Graduate education in Physiology", University of Wisconsin--Green Bay, Green Bay, Wisconsin, 11/2002
"Anesthetic-induced preconditioning", American Heart Association meeting, Chicago, Illinois, 11/2006

COMMITTEE SERVICE:

Medical College of Wisconsin

1984 - 1994 Member, Curriculum Committee, Anesthesiology, MCW
1984 - 1987 Advisor, PhD Thesis Committee for Zeljko Dujic, MD Thesis: "Modulation of Acetylcholine Release and Ganglionic Synaptic Transmission in the Stellate Ganglia", MCW
1988 - 1992 Member, Strategic Research Planning Committee, MCW

1989 - 1999 Member, Ad Hoc Committee for Residency Recruitment, Anesthesiology, MCW
1989 Chairman, Physiology Intramural Review Committee, MCW
1990 - 1996 Member, Graduate Division - Admissions and Welfare Committee, MCW
1990 Member, PhD Thesis Committee for Xiaohe Xi, Physiology, Loyola University
1991 Member, PhD Thesis Committee for Hassane Sobhi Mchaourab, MCW
1992 - Present Member, Research Committee, Anesthesiology, MCW
1994 - 2001 Member, Animal Care and Use Committee, MCW
1997 - 2003 Member, Clinical Sciences Advisory Committee, MCW
1999 - 2000 Member, Faculty Council, MCW
2002 - 2005 Member, Nominating Committee of the Faculty Council, MCW
2002 - 2006 Member, MSTP Admissions Committee, MCW
2002 - 2008 Member, Admissions Committee, MCW
2003 - 2007 Advisor, PhD Thesis Committee for Marko Ljubkovic, MCW
2003 - 2007 Advisor, PhD Thesis Committee for Jasna Marinovic, MCW
2006 - Present Member, DSHREP (formerly MSRTP) Steering Committee, MCW
2006 - 2010 Advisor, PhD Thesis Committee for Filip Sedlic, MCW
2007 - 2009 Advisor, PhD Thesis Committee for Danijel Pravdic, MCW
2009 Advisor, PhD Thesis Committee for Scott Canfield, MCW
2009 - Present Member, GSC Program Evaluation Committee, MCW
2010 - Present Member, Clinical & Translational Science Institute-Mentoring Committee, MCW
2010 - Present Member, Office of Research Innovation - Administration Task Force, MCW
2010 - Present Member, CVC Search Committee, MCW

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Faculty

1980 - 1985 David Stowe, MD, PhD, MCW
1982 - 1985 Lawrence Turner, MD, MCW
1982 - 1984 Susan Palmer, MD, MCW
1985 - 1989 Anil Aggarwal, MD, MCW
1986 - 1990 Eugene Cheng, MD, MCW
1986 - 1987 Daniel Siker, MD, MCW
1987 - 1989 Robert Schoen, DO, PhD, MCW
1988 - 1990 John L. Atlee, MD, MCW
1989 - 1994 Barbara Palmisano, MD, MCW
1989 - 1992 Heinrich K. Schedewie, MD, MCW
1990 - 1993 Hanna Eskinder, PhD, MCW
1990 - 1992 Alan Goldberg, MD, PhD, MCW
1990 - 1991 Quinn Hogan, MD, MCW
1991 - 1993 Harvey Woehlck, MD, MCW
1993 - 1995 Anna Stadnicka, PhD, MCW
2010 - Present Xiaowen Bai, MD, PhD, MCW

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Palmer SK, Zuperku EJ, Bosnjak ZJ, Coon RL, Kampine JP. Halothane, tracheal compliance and upper-airway mechanoreceptors. Anesthesiology, 1978;49:260-265.
2. Bosnjak ZJ, Zuperku EJ, Coon RL, Kampine JP. Acute coronary artery occlusion and cardiac sympathetic afferent nerve activity. Proc Soc Exp Biol Med, 1979;161:142-148.
3. Bosnjak ZJ. Segmental coronary artery occlusion: Afferent cardiac sympathetic nerve activity and effect of nitroglycerin. Thesis (Ph.D.) Medical College of Wisconsin. Department of Physiology, 1979.
4. Bosnjak ZJ, Seagard JL, Zuperku EJ, Coon RL, Singh HM, Bamrah VS, Kampine JP. Segmental ventricular adjustments to brief periods of ischemia in the dog. Can J Physiol Pharmacol, 1981;59:287-292.
5. Bachhuber SR, Seagard JL, Bosnjak ZJ, Kampine JP. The effect of halothane on reflexes elicited by acute coronary artery occlusion in the dog. Anesthesiology, 1981;54:481-487.

6. Bosnjak ZJ, Bamrah BS, Seagard JL, Kampine JP. Excitation of afferent cardiac sympathetic nerves is modulated by nitroglycerin. Proc Soc Exp Biol Med, 1981;166:398-404.
7. Bosnjak ZJ, Seagard JL, Kampine JP. Peripheral neural input to neurons of the stellate ganglion in the dog. Am J Physiol, 1982;242(11):R237-243.
8. Bosnjak ZJ and Kampine JP. Intracellular recordings from the stellate ganglion of the cat. J Physiol (London), 1982;324:273-283.
9. Bosnjak ZJ, Seagard JL, Wu A, Kampine JP. The effects of halothane on sympathetic ganglionic transmission. Anesthesiology, 1982;57:473-479.
10. Bosnjak ZJ and Kampine JP. Effects of halothane, enflurane and isoflurane on the SA node. Anesthesiology, 1983;58:314-321.
11. Palmer SK, Bosnjak ZJ, Hopp FA, von Colditz JH, Kampine JP. Lidocaine and bupivacaine differential blockade of isolated canine nerves. Anesth Analg, 1983;62:754-757.
12. Seagard JL, Elegbe EO, Hopp FA, Bosnjak ZJ, von Colditz JH, Kalbfleisch JH, Kampine JP. Effects of isoflurane on the baroreceptor reflex. Anesthesiology, 1983;59:511-520.
13. Seagard JL, Hopp FA, Bosnjak ZJ, Elegbe EO, Kampine JP. Extent and mechanism of halothane sensitization of the carotid sinus baroreceptors. Anesthesiology, 1983;58:432-437.
14. Bosnjak ZJ and Kampine JP. Peripheral neural input to neurons of the middle cervical ganglion in the cat. Am J Physiol, 1984;246(15):R354-R358.
15. Seagard JL, Hopp FA, Bosnjak ZJ, Osborn JL, Kampine JP. Sympathetic efferent nerve activity in conscious and isoflurane-anesthetized dogs. Anesthesiology, 1984;61:266-270.
16. Stowe DF, Bosnjak ZJ, Kampine JP. Halothane diminishes changes in cardiac fiber action potential duration induced by hypocarbia and hypercarbia. Anesthesiology, 1984;61:245-253.
17. Turner LA, Zuperku EJ, Bosnjak ZJ, Kampine JP. Autonomic modulation of refractoriness in the canine specialized His-Purkinje system. Am J Physiol, 1985;248(17):R515-R523.
18. Stowe DF, Bosnjak ZJ, Kampine JP. Effect of hypoxia on adult and neonatal pacemaker rates. Obstet Gynecol, 1985;66:649-656.
19. Kostreva DR, Armour JA, Bosnjak ZJ. Metabolic mapping of a cardiac reflex mediated by sympathetic ganglia in the dog. Am J Physiol, 1985;249:R317-R322.
20. Bosnjak ZJ and Kampine JP. Electrophysiological and morphological characterization of neurons in stellate ganglion of cat. Am J Physiol, 1985;248(17):R288-R292.
21. Bosnjak ZJ. Ganglionic modulation of cardiac autonomic activity. Periodicum Biologorum, 1985;87(1):27-32.
22. Bosnjak ZJ, Stowe DF, Kampine JP. Comparison of lidocaine and bupivacaine depression of sinoatrial nodal activity during hypoxia and acidosis in adult and neonatal guinea pigs. Anesth Analg, 1986;65:911-917.
23. Stowe DF, Bosnjak ZJ, Kampine JP. Cardiac cell action potential duration is dependent upon induced changes in Ca2+ activity during pH changes in vitro. J Electrocardiol, 1986;19(2):143-154.
24. Bosnjak ZJ, Seagard JL, Roerig DL, Kostreva DR, Kampine JP. Effects of morphine on sympathetic transmission in the stellate ganglion of the cat. Can J Physiol Pharmacol, 1986;64:940-946.
25. Bosnjak ZJ, and Kampine JP. Effects of halothane on transmembrane potentials, Ca2+ transients, and papillary muscle tension in the cat. Am J Physiol, 1986;251(20):H374-H381.
26. Turner LA, Bosnjak ZJ, Kampine JP. Action of halothane on the electrical activity of Purkinje fibers derived from normal and infarcted canine hearts. Anesthesiology, 1987;67:619-629.
27. Hoka S, Siker D, Bosnjak ZJ, Kampine JP. Alteration of blood flow distribution and vascular capacitance during induced hypotension in deafferented dogs. Anesthesiology, 1987;66:647-652.
28. Hoka S, Bosnjak ZJ, Kampine JP. Halothane inhibits calcium accumulation following myocardial ischemia and calcium paradox in guinea pig hearts. Anesthesiology, 1987;67:197-202.
29. Bosnjak ZJ. Let's have "sympathy". Anesthesiology, 1988;69:806.
30. Stowe DF, Dujic Z, Bosnjak ZJ, Kalbfleisch JH, Kampine JP. Effects of inhalational anesthetics and sympathomimetics on the SA node. Anesthesiology, 1988;68:887-894.
31. Stowe DF, Bosnjak ZJ, Marijic J, Kampine JP. Effects of halothane with and without histamine and/or epinephrine on automaticity, intracardiac conduction times and development of dysrhythmias in the isolated guinea pig heart. Anesthesiology, 1988;68:695-706.
32. Hoka S, Bosnjak ZJ, Seagard JL, Siker D, Palmisano BW, Coon RL, Kampine JP. Left ventricular reflex control of venous return and systemic vascular capacitance in dogs. Can J Physiol Pharmacol, 1988;66:112-118.
33. Hoka S, Bosnjak ZJ, Siker D, Luo R, Kampine JP. Dynamic changes in venous outflow by baroreflex and

left ventricular distension. Am J Physiol, 1988;254(23):R212-R221.
34. Marijic J, Bosnjak ZJ, Stowe DF, Kampine JP. Effects and interaction of verapamil and volatile anesthetics on the isolated perfused guinea pig heart. Anesthesiology, 1988;69:914-922.
35. Bosnjak ZJ, Dujic Z, Roerig DL, Kampine JP. Effects of halothane on acetylcholine release and sympathetic ganglionic transmission. Anesthesiology, 1988;69:500-506.
36. Hoka S, Bosnjak ZJ, Arimura H, Kampine JP. Regional venous outflow, blood volume and sympathetic nerve activity during severe hypoxia. Am J Physiol, 1989;256(25):H162-H170.
37. Bosnjak ZJ and Kampine JP. Cardiac sympathetic afferent cell bodies located in the peripheral autonomic nervous system of the cat. Circ Res, 1989;64:554-562.
38. Ozono K, Bosnjak ZJ, Kampine JP. Reflex control of mesenteric vein diameter and pressure in situ in rabbits. Am J Physiol, 1989;256(25): H1066-H1072.
39. Cheng EY, Kay J, Hoka S, Bosnjak ZJ, Coon RL, Seagard JL, Kampine JP. Influence of lung inflation reflex on vascular capacitance in systemic circulation. Am J Physiol, 1989;257(26)R1004-R1011.
40. Atlee JL and Bosnjak ZJ. Mechanisms for cardiac dysrhythmias during anesthesia. Anesthesiology, 1990;72:347-374.
41. Turner LA, Marijic J, Kampine JP, Bosnjak ZJ. A comparison of the effects of halothane and tetrodotoxin on the regional repolarization characteristics on canine Purkinje fibers. Anesthesiology, 1990;73:1158-1168.
42. Dujic Z, Bosnjak ZJ, Schedewie H, Roerig DL, Kampine JP. Presynaptic modulation of ganglionic ACh release by muscarinic and nicotinic receptors. Am J Physiol, 1990;259(28)R288-R293.
43. Atlee JL, Bosnjak ZJ, Yeager TS. Effects of diltiazem, verapamil and inhalational anesthetics on electrophysiologic properties affecting reentrant supraventricular tachycardia in chronically instrumented dogs. Anesthesiology, 1990;72:889-901.
44. Marijic J, Stowe DF, Turner LA, Kampine JP, Bosnjak ZJ. Differential protective effects of halothane and isoflurane against hypoxic and reoxygenation injury in the isolated guinea pig heart. Anesthesiology, 1990;73:976-983.
45. Marijic J, Madden JA, Kampine JP, Bosnjak ZJ. The effects of halothane on norepinephrine responsiveness in rabbit small mesenteric veins. Anesthesiology, 1990;73:479-484.
46. Stowe DF, Monroe S, Marijic J, Rooney RT, Bosnjak ZJ, Kampine JP. Effects of nitrous oxide on contractile function and metabolism of the isolated heart. Anesthesiology, 1990;73:1220-1226.
47. Sprung J, Gamulin S, Bosnjak ZJ, Kampine JP. Potassium correction of hypothermic hypokalemia induces hyperkalemia after rewarming. Can J Anaesth, 1990;37:S69.
48. Stekiel TA, Ozono K, McCallum JB, Bosnjak ZJ, Kampine JP. The inhibitory action of halothane on reflex constriction in mesenteric capacitance veins. Anesthesiology, 1990;73:1169-1178.
49. Ozono K, Bosnjak ZJ, Kampine JP. Effect of sympathetic tone on pressure-diameter relationship of rabbit mesenteric veins in situ. Circ Res, 1991;68:888-896.
50. Bosnjak ZJ, Marijic J, Roerig DL, Stowe DF, Murthy VS, Kampine JP. Chronic verapamil treatment depresses automaticity and contractility in isolated cardiac tissues. Anesth Analg, 1991;72:462-468.
51. Gallenberg LA, Stowe DF, Marijic J, Kampine JP, Bosnjak ZJ. Depression of atrial rate, atrioventricular nodal conduction and cardiac contraction by diltiazem and volatile anesthetics in isolated hearts. Anesthesiology, 1991;74:519-530.
52. Rooney J, Marijic J, Stowe DF, Kampine JP, Bosnjak ZJ. Additive depressant effects of amiodarone given with halothane in isolated hearts. Anesth Analg, 1991;72:474-481.
53. Bosnjak ZJ, Supan FD, Rusch NJ. The effects of halothane, enflurane and isoflurane on calcium current in isolated canine ventricular cells. Anesthesiology, 1991;74:340-345.
54. Rooney RT, Stowe DF, Marijic J, Bosnjak ZJ, Kampine JP. Amrinone reverses cardiac depression and augments coronary vasodilatation with isoflurane in the isolated heart. Anesthesiology, 1991;74:559-567.
55. Eskinder H, Rusch NJ, Supan FD, Kampine JP, Bosnjak ZJ. The effects of volatile anesthetics on L- and T-type calcium channel currents in canine cardiac Purkinje cells. Anesthesiology, 1991;74:919-926.
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