

JASNA MARINOVIĆ, MD, PhD (scientist number: 299844)

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Education

1996 – 2002 MD, University of Zagreb School of Medicine
2003 – 2007 PhD, Medical College of Wisconsin, Milwaukee, USA

Employment

2007 – 2008 Senior instructor, University of Split School of Medicine
2008 – 2012 Assistant professor, University of Split School of Medicine
2012 - current Associate professor, University of Split School of Medicine

Research grants and awards:

2006 -2007: American Heart Association; Principal Investigator on the project "Association of sarcolemmal KATP channel disruption with mitochondrial dysfunction and apoptosis: A link to heart failure"

2007: Excellence in Physiology Award from the Medical College of Wisconsin

2007: Outstanding Dissertation Award from Graduate School of Biomedical Sciences at the Medical College of Wisconsin

2009 – 2011: Unity through Knowledge Fund; Co-investigator on the project entitled "Physiology of SCUBA diving"

2008: Unity through Knowledge Fund; Principal investigator on the training project "Animal Model for Studying the Effects of Exercise on Cardiac Function".

2009 – 2011: Unity through Knowledge Fund; Collaborator on the project "Exercise-induced improvement of chronic heart failure: the role of KATP channels and mitochondria"

2011 – 2014: Office of Naval Research, USA; Collaborator on the project "Development of capacities for underwater assessment of cardiovascular parameters"

2013 – March 2016: Croatian Science Foundation; Principal investigator on the project "Myocardial energetics as a target for treatment of ischemic heart disease: A translational approach from patient to mitochondria".

2014 – current: Croatian Science Foundation; Collaborator on the project "Investigating pathological processes in ischemic human myocardium; basic science tools for major health problem"

Supervision of doctoral and postdoctoral students: Mentor on 2 doctoral dissertations (one defended in 2014 and one planned by the end of 2016)

Research profile

Research interests include investigation of various intracellular factors involved in cardiac calcium regulation (e.g. KATP channels) and cell death mechanisms in isolated cardiomyocytes.

Publications: 26 publications, 441 citations; Selected publications listed below:

1. **Marinovic J**, et al. Distinct roles for sarcolemmal and mitochondrial adenosine triphosphate-sensitive potassium channels in isoflurane-induced protection against oxidative stress. *Anesthesiology*. 2006; 105: 98-104.
2. **Marinovic J**, et al. Role of sarcolemmal ATP-sensitive potassium channel in oxidative stress-induced apoptosis: mitochondrial connection. *American Journal of Physiology-Heart and Circulatory Physiology*. 2008;294: H1317-H1325.
3. Kraljevic J, **Marinovic J**, et al. Aerobic interval training attenuates remodelling and mitochondrial dysfunction in the post-infarction failing rat heart. *Cardiovasc Res*. 2013;99(1):55-64.
4. Kraljevic J, ... **Marinovic J**. Role of KATP Channels in Beneficial Effects of Exercise in Ischemic Heart Failure. *Med Sci Sports Exerc*. 2015;47(12):2504-12.
5. Cavar M, ... **Marinovic J**. Trimetazidine does not alter metabolic substrate oxidation in cardiac mitochondria of target patient population. *Br J Pharmacol*. 2016;173(9):1529-40.