

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

Date of birth: September 28th, 1977.

E-mail: jasna.marinovic@mefst.hr

Phone: + 385 21 557 946

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.

Prof. dr. sc. JASNA MARINOVIĆ, dr.med. (Matični broj znanstvenika: 299844)

Datum rođenja: 28. 09. 1977.

E-mail: jasna.marinovic@mefst.hr

Tel: + 385 21 557 946

Školovanje

1996 – 2002 Doktor medicine; Medicinski fakultet Sveučilišta u Zagrebu

2003 – 2007 Dr. sc., Medical College of Wisconsin, Milwaukee, SAD

Zaposlenje

2007 – 2008 Viši asistent; Medicinski fakultet Sveučilišta u Splitu

2008 – 2012 Docent, Medicinski fakultet Sveučilišta u Splitu

2012 - Izvanredni profesor; Medicinski fakultet Sveučilišta u Splitu

Znanstveni projekti i nagrade:

2006 – 2007: American Heart Association; Voditeljica projekta "Association of sarcolemmal KATP channel disruption with mitochondrial dysfunction and apoptosis: A link to heart failure"

2007: Excellence in Physiology Award; Medical College of Wisconsin

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

2009 – 2011: Jedinstvo uz pomoć znanja (UKF) fond; Istraživač na projektu "Physiology of SCUBA diving"

2008: Jedinstvo uz pomoć znanja (UKF) fond; Voditeljica projekta "Animal Model for Studying the Effects of Exercise on Cardiac Function".

2009 – 2011: Jedinstvo uz pomoć znanja (UKF) fond; Istraživač na projektu "Exercise-induced improvement of chronic heart failure: the role of KATP channels and mitochondria"

2011 – 2014: Office of Naval Research, USA; Istraživač na projektu "Development of capacities for underwater assessment of cardiovascular parameters"

2013 – ožujak 2016: Hrvatska zaklada za znanost; Voditeljica projekta "Myocardial energetics as a target for treatment of ischemic heart disease: A translational approach from patient to mitochondria".

2014 – 2017 : Hrvatska zaklada za znanost; Istraživač na projektu "Investigating pathological processes in ischemic human myocardium; basic science tools for major health problem"

Mentorstva: Mentor na 2 doktorske disertacije (jedna obranjena u 2014. godini, a druga planirana do kraja 2016. godine)

Znanstveni interesi

Uključuju istraživanje raznih unutarstaničnih faktora koji sudjeluju u regulaciji staničnog kalcija (poput KATP kanala) i mehanizama stanične smrti

Znanstveni radovi: 26 znanstvenih publikacija, 441 citat; Popis odabranih publikacija:

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.