

Curriculum vitae

Personal Information

Name: Péter Tibor Dancs
Place and date of birth: Mór, 7 July 1990
Nationality: Hungarian
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Education

2009- Semmelweis University, Faculty of Medicine, Budapest
2003-2009 Teleki Blanka Secondary Grammar School, Székesfehérvár
1997-2003 Széna Téri Elementary School, Székesfehérvár

Languages

English advanced (C1) level
German advanced (C1) level

Research Experience

2011- *Laboratory:* Laboratory of Molecular Cardiovascular Physiology, Institute of Human Physiology and Clinical Experimental Research, Semmelweis University, Faculty of Medicine
Supervisors: Prof. Zoltán Benyó, MD, PhD, DSc; Éva Ruisanchez MD
Scientific topic: Role of lipid mediators in physiological and pathophysiological processes of the cardiovascular system
Expertise: Preparation of murine vessels, execution and evaluation of ex vivo myography experiments

Awards

2014 Stephen W. Kuffler Research Scholarship
Republican Grant of Hungary for the academic year of 2014/2015
1st prize at the Semmelweis International Students' Conference 2014, Budapest, Hungary
2013 Republican Grant of Hungary for the academic year of 2013/2014
1st prize at the Semmelweis International Students' Conference 2013, Budapest, Hungary
2nd prize at the XXXI. National Students' Conference 2013, Szeged, Hungary

3rd prize at the XXXI. National Students' Conference 2013, Szeged, Hungary

2nd prize at the XVIII. Korányi Frigyes Scientific Forum 2013, Budapest, Hungary

2012 1st prize at the Semmelweis International Students' Conference 2012, Budapest, Hungary (co-author)

Conference Attendance

2014 FEPS 2014 Congress, Budapest, Hungary, poster presentation (co-author)

2013 Common Congress of the Hungarian Physiological, Pharmacological and Microcirculatory Societies 2013, Budapest, Hungary, oral presentation

10th Sphingolipid Club Meeting 2013, Assisi, Italy, oral presentation

Publication in peer-reviewed original research paper

Ruisanchez É, *Dancs P*, Kerék M, Németh T, Faragó B, Balogh A, Renukadevi P, Jennings BL, Liliom K, Malik KU, Smrcka AV, Tigyi G, Benyó Z: Lysophosphatidic acid induces vasodilation mediated by LPA₁ receptors, phospholipase C, and endothelial nitric oxid synthase. **The FASEB Journal** 2014, Vol. 28. (doi:10.1096/fj.13-234997) **IF:5.704**

Research objectives

The first two years of my medical studies were great and really raised my interest for science. After completing my second year's final exams I had a great opportunity to join Prof. Dr. Zoltán Benyó's workgroup at the Institute of Human Physiology and Clinical Experimental Research. Since then, I have been working here as a member of the Student Research Association under the supervision of Prof. Dr. Zoltán Benyó and dr. Éva Ruisanchez.

Our workgroup is interested in the role of lipid mediators in the cardiovascular system. My main research topic is the effects of lysophosphatidic acid (LPA) on the vascular tone. LPA is a simple bioactive lysophospholipid with diverse functions, which derives mainly from activated platelets. We are the first, who has described and has published, that LPA causes vasorelaxation in the presence of endothelium. We have also clarified the underlying signal transductional pathways.

During these experiments we came to the conclusion that the effect of LPA changes, if the endothelium is injured. Instead of relaxation, LPA causes contraction in the absence of endothelium. Recently, our main effort focuses on the examination of this phenomenon and the explanation of its signal transduction. We do believe that our results contribute to a better understanding of the local regulation of blood flow and hemostasis.

My future plans contain continuing my work as the member of the laboratory with the same or even bigger commitment and motivation. Even though, that after graduation I intend to be a clinician, scientific research is always going to be a part of my life.