

PERSONAL INFORMATION

Balázs Horváth



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Date of birth 13 September 1981.

WORK EXPERIENCE

- 2014 – Present **senior lecturer**
University of Debrecen, Faculty of Medicine, Department of Physiology
- 2010 – 2014 **assistant lecturer**
University of Debrecen, Faculty of Medicine, Department of Physiology
- 2010 – 2012 **postdoctoral scholar**
Department of Pharmacology, University of California, Davis, Davis, CA, USA

EDUCATION AND TRAINING

- 2021 **Habilitation**
University of Debrecen, Debrecen, Hungary
„Dynamics of the late sodium current under the action potential in guinea pig, canine and human ventricular myocardium”
- 2009 **PhD**
University of Debrecen, Debrecen, Hungary
„Role of potassium currents in the repolarization of canine left ventricular cardiomyocytes”
- 2009 **Laboratory animal science and experimental design (C-level)**
Szent István University and University of Debrecen
- 2006 **medical doctor**
University of Debrecen, Faculty of Medicine, Debrecen, Hungary
- 2000 **High School diploma**
Lajos Kossuth Secondary School, Debrecen, Hungary

PERSONAL SKILLS

Mother tongue(s) Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	A1	A2	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills I have excellent communication skills both verbally and in writing. I publish in English language journals. I create reports for research projects. I give lectures and seminars on a weekly basis.

Organizational / management skills planning, leading, and managing research projects; tutoring students

Job-related skills Research planning and management, problem-solving skills, result-orientedness.

Computer skills Microsoft Office, Microsoft Visual Basic, Origin, JASP

EDUCATIONAL ACTIVITIES

Teaching experience Medical-, and Dental physiology. Human Physiology for Pharmacy and Molecular Biology students. Practices since 2006, seminars since 2008, lectures since 2013 in Hungarian and English.
Tutor and lecturer in physiology related credit courses.

Tutoring experience PhD students:

- Tamás Hézső (from 2018)
- Roland Veress (2016–2019)

graduate research students: 10 students

- 3 prizes at national Students' Scientific Association conferences
- 4 Students' Scientific Association research essays

diploma thesis: 1 student (successful defense in 2016)

Doctoral education Member of the Molecular Medicine Doctoral School at UD from 2014.

PUBLIC ACTIVITIES

Awards Morris Karmazyn Award (International Academy of Cardiovascular Sciences) 2019
National Academic Excellence Scholarship (New National Excellence Program, Ministry of Human Resources, Republic of Hungary) 2017-2019
János Bolyai Research Scholarship (Hungarian Academy of Sciences, Hungary) 2016-2020
MKT-Richter Prize (Hungarian Society of Cardiology and Richter Gedeon PLC.) 2015
Youth Award of the Hungarian Physiological Society 2014, 2018
Zoltán Magyary postdoctoral scholarship 2013
Norman R. Alpert Visiting Scientist Award (European Society of Cardiology) 2009.

Decorations Teacher of the Year 2019. (University of Debrecen, Faculty of Medicine, Hungarian 2nd year)

SCIENTIFIC ACTIVITIES

Research interests Cardiac cellular electrophysiology

- roles of different ion channels and ionic currents in the electrical properties of the mammalian myocardium
- signalling pathways in cardiac myocytes
- regional differences in the properties of cardiomyocytes
- pharmacological modulation of ion channels; mechanisms of arrhythmias, effects of anti-arrhythmic drugs

Research group Member of the Cardiac cellular electrophysiology research group at the Department of Physiology, University of Debrecen, from 2006

Memberships Hungarian Society of Cardiology
European Society of Cardiology
European Working Group on Cardiac Cellular Electrophysiology
European Heart Rhythm Association
Heart Failure Association
International Society on Heart Research
Hungarian Society of Physiology
Affiliate of The Physiological Society (2008-2010)
Biophysical Society

Editorial board memberships Frontiers in Physiology

Research publications <https://scholar.google.com/citations?user=p50Ad6UAAAAJ>