

Curriculum Vitae

Name: János Almássy
Date and place of birth: 02.19.1981. Debrecen

Employment:

2014- assistant professor
University of Debrecen, Faculty of Medicine, Department of Physiology

2013 assistant lecturer
University of Debrecen, Faculty of Medicine, Department of Physiology

2009-2012 Postdoctoral Research Associate
University of Rochester Medical Center, Rochester, NY
in David Yule's and Ted Begenisich's laboratory

Research interest: Investigation of calcium signaling pathways and calcium dependent ion channels in the function of secretory epithelia. Regulation of inositol trisphosphate receptor and ryanodine receptor function.

Techniques: Fluorescent microscopy, **Ca²⁺ imaging techniques**, Ca²⁺ release measurement on permeabilized cells, flash photolysis, FRET, TIRF, BIFC. Electrophysiology: patch clamp technique in cell attached, whole cell and inside out configuration, IP₃R single channel current measurements on cell nuclei, **ryanodin receptor single channel current recordings** . Molecular biology: basic DNA és protein techniques, PCR, in vitro mutagenesis, molekular cloning, transfection.

2004-2009 PhD student, then research associate
University of Debrecen, Faculty of Medicine, Department of Physiology
Supervisor: István Jóna

Research interest: muscle physiology, electromechanical coupling in skeletal muscle. Investigation the role of skelatal muscle ryanodine receptor in heart failure. Characterization of the biophysical properties and the regulation of single ryanodine receptor ion channels. Investigating the function of the sarco-endoplasmic reticulum calcium ATP-ase.

Techniques: **Single channel recordings on purified and reconstituted ryanodine receptors in artificial lipid bilayers**. Preparative biochemical techniques. Ca²⁺-release measurements using sarcoplasmic reticulum vesicles and metallochromic dyes. Radioligand binding assays.

Studies:

2004 diploma in molecular biology
English-Hungarian technical translator
University of Debrecen, Faculty of Sciences

2004-2008 PhD student , University of Debrecen, Physiology-neurobiology program
2009 PhD- Title: Altered skeletal muscle ryanodine receptor function in heart failure
Supervisor: Dr István Jóna

Scientific output:

2014- Principal investigator in the project # PD112199, entitled: Malignant hyperthermia: the genetic risk factor for acute pancreatitis?, supported by the Hungarian Research Fund

2014- János Bolyai Scholarship provided by the Hungarian Academy of Sciences

2014- Lajos Szodoray Scholarship provided by the University of Debrecen, Faculty of Medicine

Statistics of publications: 23 in extenso paper

Teaching activity:

2004- Medical Physiology lab and practice
2009- Lectures on ion channel physiology at elective courses
2013-2015 Physiology seminars for pharmacy students
Physiology lectures for BSc and MSc students
2014-2015 Physiology lectures for pharmacy students