

# Curriculum vitae

**Name:**

Dr. Zoltán Rakonczay

**Place and date of birth:**

Szeged, 9 March, 1975

**Workplace:**

University of Szeged, Dept. of Pathophysiology  
H-6701, P.O. Box: 427, Szeged, Hungary  
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**Nationality:**

Hungarian

**Education, degrees:**

- 2013.03. **D.Sc. degree** “Experimental acute pancreatitis: investigation of the pathogenesis and therapeutical targets”  
Hungarian Academy of Sciences, Budapest
- 2010.03. **Doctor habilis** University of Szeged, Szeged, Hungary  
(habilitation in interdisciplinary sciences)
- 2002.12. **Ph.D. degree** “The potential role of heat shock proteins in the prevention of experimental acute pancreatitis”  
(summa cum laude) University of Szeged, Szeged, Hungary
- 1999-2002 Ph.D. student Albert Szent-Györgyi Medical University  
(renamed University of Szeged from 2000),  
First Dept. of Medicine, Szeged, Hungary
- 1999.09. **M.D. diploma** Albert Szent-Györgyi Medical University,  
(summa cum laude) Faculty of Medicine, Szeged, Hungary
- 1993-99 Medical student Albert Szent-Györgyi Medical University,  
Faculty of Medicine, Szeged, Hungary
- 1992 **High school diploma** Mayo High School, Rochester, MN, USA
- 1990-92 Student Mayo High School, Rochester, MN, USA
- 1989-90 Student Ferenc Deák High School bilingual class  
(English-Hungarian), Szeged, Hungary

**Main research interests:**

- Physiology and pathophysiology of the pancreas (especially pancreatic ductal secretion and acute pancreatitis)

**Research and professional experience:**

- 2019.05- Chairman University of Szeged, Dept. of Pathophysiology,  
Szeged, Hungary
- 2016.09- Professor University of Szeged, Dept. of Pathophysiology
- 2015.07- Professor University of Szeged, First Dept. of Medicine,  
2016.09 Szeged, Hungary
- 2015.07- Associate Professor University of Szeged, Dept. of Pathophysiology,  
2016.08 Szeged, Hungary
- 2009.07- Associate Professor University of Szeged, First Dept. of Medicine,  
2015.06 Szeged, Hungary
- 2008.05-07 Research Associate University of Liverpool, Physiological Laboratory,

- 2006.05-09 Visiting assistant research School of Biomedical Sciences, Liverpool, U.K.  
University of California Los Angeles, Pancreatic Research Group, Los Angeles, CA, USA (sponsored by the Rosztoczy Foundation)
- 2005.01- Assistant Professor University of Szeged, First Dept. of Medicine, Szeged, Hungary
- 2003-5 Research associate (regulation of anion exchangers in human pancreatic duct cells) University of Newcastle upon Tyne, School of Cell and Molecular Biosciences, Newcastle, U.K.
- 2002-5 Junior research associate University of Szeged, First Dept. of Medicine, Szeged, Hungary
- 1999.10- Ph.D. student University of Szeged, First Dept. of Medicine, Szeged, Hungary  
2002.10 (physiology and pathophysiology of the pancreas, acute pancreatitis, NF- $\kappa$ B, heat shock proteins)
- 1999 Gastroenterological clerkship Mayo Clinic, Rochester, MN, USA
- 1997-99 Student research fellow (the investigation of heat shock protein inducer compounds) Hungarian Academy of Sciences, Biological Research Center, Institute of Biochemistry, Szeged, Hungary

#### **Reviewing for international journals:**

- 2018- Naunyn-Schmiedeberg's Archives of Pharmacology, Scientific Reports, Journal of Cellular Biochemistry, Disease Markers
- 2017- Current Medical Research and Opinion, Biochimie
- 2016- Cellular Physiology and Biochemistry, Archives of Medical Research, Alcohol, Current Pharmaceutical Design
- 2015- Clinical Biochemistry, Experimental Biology and Medicine, European Surgical Research, Acta Physiologica Hungarica
- 2014- Nature Communications, Surgery, American Journal of Physiology - Regulatory, Integrative and Comparative Physiology
- 2013- Cell Proliferation
- 2012- Frontiers in Gastrointestinal Sciences, Gut, Journal of Physiology, World Journal of Gastrointestinal Surgery, Gastroenterology, Aging Cell
- 2011- The Tohoku Journal of Experimental Medicine, Digestive Diseases and Sciences, European Journal of Pharmacology, Antioxidants & Redox Signaling, Pancreatology
- 2010- Critical Care Medicine, PLoS ONE, Acta Physiologica, Diabetes Research and Clinical Practice
- 2009- Mediators of Inflammation, Translational Research, World Journal of Gastroenterology, Journal of the Pancreas, The Journal of Pathology
- 2008- Acta Biochimica et Biophysica Sinica
- 2007- Pancreas, BMC Gastroenterology
- 2006- Experimental Physiology, Acta Pharmacologica Sinica
- 2004- Journal of Cellular Physiology

#### **Editorial work for international journals:**

- 2018- Mediators of Inflammation (Academic Editor)
- 2016- Pancreatology (Editorial Board member)

- 2015- Pancreas (Associate Editor)
- 2013- PLOS ONE (Academic Editor)
- 2011- World Journal of Gastrointestinal Physiology, World Journal of Critical Care Medicine, Gastroenterology and Hepatology(GH) (Editorial Board member)
- 2011 International Journal of Inflammation (Guest Editor, Special Issue on Acute and Chronic Pancreatitis)
- 2010- World Journal of Gastroenterology (Editorial Board member)
- 2009 Pancreatology (Guest Editor)
- 2008 Antioxidants & Redox Signaling (Reviewing Editor)

**Reviewing for scientific funding bodies:**

- 2018-2020 National Research, Development and Innovation Office, Hungary
- 2018 National Science Centre, Poland
- 2016 Cystic Fibrosis Research, Inc. (CFRI)
- 2009- Hungarian Scientific Research Fund
- 2009 Medical Research Scotland

**Memberships:**

- 2014- Hungarian Physiological Society (council member from 2018)
- 2010- Council member of the Research Forum of the Hungarian Gastroenterological Society, president elect from 2018
- 2010-18 Council member of the Pancreatic section of the Hungarian Gastroenterological Society
- 2009-13 Council member of the European Pancreatic Club
- 2006- The Physiological Society, U.K., American Pancreatic Association
- 2003- Public Body of the Hungarian Academy of Sciences
- 2000- Hungarian Gastroenterological Society (council member from 2012), European Pancreatic Club (council member from 2009-2013)

**Conference organization:**

- 2019 13<sup>th</sup> Meeting of Nobel Laureates and Talented Students in Szeged, member
- 2018 EFOP-3.6.2-16-2017-00006 Translational interactive hands-on-training and conference on epithelial ion transport, Budapest, member
- 2018 12<sup>th</sup> Meeting of Nobel Laureates and Talented Students in Szeged, member
- 2018 University Szeged, Faculty of Medicine, Annual Students' Research Conference (Szeged), chairman
- 2018 11<sup>th</sup> Meeting of Nobel Laureates and Talented Students in Szeged, member
- 2017 University Szeged, Faculty of Medicine, Annual Students' Research Conference (Szeged), chairman
- 2017 9<sup>th</sup> and 10<sup>th</sup> Meetings of Nobel Laureates and Talented Students in Szeged, member
- 2016 University Szeged, Faculty of Medicine, Annual Fall Students' Research Conference (Szeged), chairman
- 2016 University Szeged, Faculty of Medicine, Annual Spring Students' Research Conference (Szeged), chairman
- 2015 University Szeged, Faculty of Medicine, Annual Students' Research Conference (Szeged), secretary
- 2015 79<sup>th</sup> Annual Meeting of the Hungarian Physiological Society (Szeged), symposium organizer

- 2014 University Szeged, Faculty of Medicine, Annual Students' Research Conference (Szeged), secretary
- 2014 Joint meeting of the Hungarian Physiological Society and FEPS (Budapest), Symposium on Epithelial function and repair, member
- 2014 9<sup>th</sup> International Symposium on Alcoholic Liver and Pancreatic Diseases, member
- 2013 University Szeged, Faculty of Medicine, Annual Students' Research Conference (Szeged), secretary
- 2013 31<sup>st</sup> National Conference of Students' Research Societies, secretary
- 2012 University Szeged, Faculty of Medicine, Annual Students' Research Conference (Szeged), secretary
- 2012 UEG Basic Science Course (Szeged), hands-on-training manager
- 2012 75<sup>th</sup> Anniversary of Albert Szent-Györgyi's Nobel Prize Award (Szeged), member
- 2011 International Research Workshop on Acute Pancreatitis (Szeged), chairman
- 2010 Meeting of the Pancreatic Section of the Hungarian Gastroenterological Society
- 2009 Postgraduate course following EPC2009 (Szeged), member
- 2009 Hungarian Physiological Society, Gastrointestinal symposium (Budapest), member
- 2009 Basic and Clinical Science Symposium (Szeged), member
- 2009 41<sup>st</sup> Meeting of the European Pancreatic Club (Szeged), member

#### **Honors, awards, prizes:**

- 2014 Bolyai plaque - Hungarian Academy of Sciences
- 2012 Rising Star - United European Gastroenterology Federation
- 2010-3 János Bolyai Postdoctoral Fellowship - Hungarian Academy of Sciences
- 2010 Certificate of merit for outstanding research activity (2006-9) – Advisory Board of the János Bolyai Fellowship of the Hungarian Academy of Sciences
- 2009-2013 Council member of the European Pancreatic Club
- 2009 Tibor Kovács prize - György Romhányi Foundation
- 2009 Sigma prize, 1<sup>st</sup> place - Sigma-Aldrich Kft.
- 2008 NYCOMED publication prize in gastroenterology 2007
- 2008 “Best non-Hungarian language publication in gastroenterology and hepatology”  
Rolf Madaus Foundation
- 2007 Imre Magyar prize - Hungarian Gastroenterological Society
- 2007 Dr. György Miklós prize - Hungarian Academy of Sciences
- 2006-9 János Bolyai Postdoctoral Fellowship - Hungarian Academy of Sciences
- 2004 “Best non-Hungarian language publication in gastroenterology and hepatology”  
Rolf Madaus Foundation
- 2003 Award for best publication – Living natural sciences category - “first prize”  
National Association of PhD. Students
- 2003 “Best non-Hungarian language publication in gastroenterology and hepatology”  
Dr. Erwin Kuntz Foundation
- 2000 University of Szeged, Students' Research Conference, award of the Hungarian Gastroenterological Society
- 1999 Albert Szent-Györgyi Medical University, Students' Competition Assay in Science  
“high priority prize”
- 1999 Albert Szent-Györgyi Medical University, Students' Research Conference “2<sup>nd</sup> prize”
- 1992 National Science Merit Award, USA
- 1991-92 National Honor Society, USA

### **Successful grant applications:**

- 34**, Ministry of Human Capacities (EMMI), EFOP-3.6.2-16-2017-00006, 1.470.046.015 HUF/3 years, 09.2017-08.2020. Modern orvostudományi diagnosztikus eljárások és terápiák fejlesztése transzlációs megközelítésben: A laboratóriumtól a betegágyig. Role: PI, professional leader
- 33**, National Research, Development and Innovation Office (NKFIH), GINOP-2.3.2-15-2016-00048, 34.000.000 HUF/4 years, 2016-2020. Életet veSzélyezTető Akut megbetegedések súlyossági és hALálózási mutatóInak jaVítása transzlációs orvostudományi mEgközelítésben - STAY ALIVE. (PI: Dr. Péter Hegyi, total funding: 1.494.053.000 HUF). Role: participant
- 32**, National Research, Development and Innovation Office (NKFIH), K119938, 46.936.000 HUF/4 years, 2016-2020. The investigation of therapeutic possibilities in acute pancreatitis. Role: PI
- 31**, National Office for Research and Development (NKTH), TÁMOP-4.2.6-15/1-2015-0002, 04.2015 – 11.2015. (PI: Dr. Márta Széll, total funding: 392.855.200 HUF) – subtopic leader
- 30**, University of Szeged, Faculty of Medicine internal grant application, 09.2015-07.2016, 3.325.000 HUF/1 year. The investigation of therapeutic possibilities in acute pancreatitis. Role: PI
- 29**, Campus Hungary, Short-term mobility grant, 47<sup>th</sup> Annual Meeting of the European Pancreatic Club, 170.000 HUF. Role: PI
- 28**, Campus Hungary, Short-term mobility grant, 45<sup>th</sup> Meeting of the American Pancreatic Association/Japan Pancreas Society Meeting, 323.000 HUF. Role: PI
- 27**, University of Szeged, Momentum Grant 2014. 2.000.000 HUF/1 year. The role of pancreatic duct cells in the pathogenesis of acute pancreatitis. Role: PI
- 26**, Hungary Initiatives Foundation - Conference Participation Support Program 2000 USD, 2014. Role: PI
- 25**, University of Szeged, Momentum Grant 2013. 2.000.000 HUF/1 year. Investigating the pathomechanism of acute experimental pancreatitis models: the role of duct cells. Role: PI
- 24**, Hungarian Scientific Research Fund (OTKA) NF105758, 39.844.000 HUF/3 years, 2012-2015. The role of pancreatic ductal secretion in the pathogenesis of acute pancreatitis. Role: PI
- 23**, Hungarian Scientific Research Fund (OTKA) K101116, 15,532,000 HUF/3 years, 2012-2015. Comparison of thoracic epidural and systemic analgesia in the treatment of severe acute pancreatitis: Experimental and clinical studies. PI: Takács T. Role: Co-investigator
- 22**, Hungarian Academy of Sciences, Janos Bolyai Postdoctoral Fellowship 00174/10/5, 4.500.000 HUF/3 years, 2010-2013. The investigation of the pathogenesis of acute pancreatitis: new paradigms in the treatment of the disease? Role: PI
- 21**, National Office for Research and Technology MEC\_07-1-2009-0446 300,000 HUF, 2010. Role: PI (conference-attendance support)
- 20**, Hungarian Scientific Research Fund (OTKA) K78311, 11.940.000 HUF/3 years, 2009-2012. The role of apical transporters/channels in pancreatic ductal secretion. Role: PI
- 19**, Hungarian Academy of Sciences – DFG project grant, 2008-2010. Expression and function of SLC26 transporters in the pancreatic ducts of mice. Role: PI (together with Péter Hegyi )
- 18**, National Office for Research and Technology, AVINOMID, 12,000,000 HUF/3 years, 2007-2010. **Preclinical and clinical investigation of anti-tumor drugs acting on intracellular lipid transport systems.** PI: Puskás L. Role: Co-investigator
- 17**, National Office for Research and Technology 2006Alap3-01478/06. 300,000 HUF, 2006. Role: PI (conference-attendance support)
- 16**, Hungarian Scientific Research Fund (OTKA) K60406, 11,714,000 HUF/3 years, 2006-2008. Therapeutic targets in acute pancreatitis: experimental and clinical studies. PI: Takács T. Role: Co-investigator

- 15**, Hungarian Scientific Research Fund (OTKA) K60242, 16,000,000 HUF/4 years, 2006-2009. The effect of bile acids and trypsin on pancreatic ductal bicarbonate secretion. PI: Lonovics J. Role: Co-investigator
- 14**, Rosztoczy Foundation. 14,700 USD/5 months, 2006. The role of protein kinase C in the regulation of bicarbonate secretion in rat pancreatic duct cells. PI: Pandol S. Role: research fellow
- 13**, Hungarian Academy of Sciences, Janos Bolyai Postdoctoral Fellowship BO/00218/06, 4,500,000 HUF/3 years, 2006-2009. The regulation of H<sup>+</sup> and HCO<sub>3</sub><sup>-</sup> transporters in human pancreatic duct cells. Role: PI
- 12**, The Physiological Society, U.K. 8,000 GBP/2 years, 2006-2008. Regulation of HCO<sub>3</sub><sup>-</sup> transporters in human pancreatic duct cells. PI: Argent BE. Role: research fellow
- 11**, Royal Society, U.K. & Hungarian Academy of Sciences. 15,000 GBP. 2006-2008. The effect of bile acids on pancreatic ductal epithelium. PI: Gray MA & Hegyi P. Role: Co-investigator
- 10**, Medical Research Council (ETT) 517/2006, 2,400,000 HUF/3 years, 2006-2009. The treatment of cystic fibrosis with gene therapy: experimental investigations on human pancreatic duct cells. PI: Lonovics J. Role: project manager
- 9**, Hungarian Scientific Research Fund (OTKA) PF63951, 12,627,000 HUF/3 years, 2006-2009. The regulation of H<sup>+</sup> and HCO<sub>3</sub><sup>-</sup> transporters in human pancreatic duct cells. Role: PI
- 8**, GVOP equipment grant. 3.2.1.-2004-04-0106/3.0, 22,950,000 HUF. 2004-2007. Regulation of pancreatic ductal bicarbonate secretion. PI: Lonovics J. Role: Co-investigator
- 7**, Medical Research Council (ETT) 257/2003, 4,500,000 HUF/3 years, 2003-2005. PI: Rakonczay Z Sr. Role: Co-investigator
- 6**, Hungarian Scientific Research Fund (OTKA) T043066, 6,000,000 HUF/4 years, 2003-2006. Inhibitory pathways and mechanisms of the pancreatic ductal epithelium. PI: Lonovics J. Role: Co-investigator
- 5**, Hungarian Scientific Research Fund (OTKA) T042589, 6,000,000 HUF/3 years, 2003-2005. Intracellular protective mechanisms in acute pancreatitis: Experimental and clinical investigations. PI: Takács T. Role: Co-investigator
- 4**, Wellcome Trust Travelling Fellowship 069470/0/Z/02/Z, 94,167 GBP/2 years, 2003-2005. Regulation of anion exchangers in human pancreatic duct cells. PI: Argent BE & Gray MA. Role: research fellow
- 3**, Hungarian Scientific Research Fund (OTKA) T038346, 4,000,000 HUF/4 years, 2002-2005. The significance of peripheral markers in the diagnosis and the therapy of Alzheimer's disease. PI: Rakonczay Z Sr. Role: Co-investigator
- 2**, Hungarian Scientific Research Fund (OTKA), 97,000 HUF (conference-attendance support), 2001. Role: PI
- 1**, Medical Research Council (ETT) 020/2000, 1,800,000 HUF/3 years, 2000-2002. Can acetylcholinesterase inhibitors block the oxidative stress of cholinceptive cells? PI: Rakonczay Z Sr. Role: Co-investigator

### **Teaching experience:**

- 2018- Ph.D. complex examination
- 2017- Pathophysiology examination
- 2015- Practical course/seminars and lectures in pathophysiology for undergraduate students, University of Szeged, Dept. of Pathophysiology
- 2008- Lectures for undergraduate students, University of Szeged
- 2005-2015 Practical course/seminars in pharmacology for undergraduate students, University of Szeged, Dept. of Pharmacology and Pharmacotherapy

- 2005- Supervision/coordination of projects and lectures for graduate (Ph.D.) students, University of Szeged
- 2000- Supervision/coordination of research projects for undergraduate students, Universities of Szeged and Newcastle upon Tyne

**Ph.D. students supervised (together with Dr. Peter Hegyi) who obtained their degrees:**

- 2017 Dr. Balázs Kui
- 2014 Dr. József Maléth
- 2013 Dr. Mátyás Czepán, Andrea Schnúr, Petra Pallagi
- 2011 Imre Ignáth
- 2010 György Biczó
- 2008 Béla Ózsvári, Viktória Venglovecz

**Miscellaneous:**

- 2019 Jury chairman, Annual Conference of Students' Research Societies, Semmelweis University Budapest, Hungary
- 2018- Council member, University of Szeged, Faculty of Medicine
- 2018- Scientific Committee member, University of Szeged, Faculty of Medicine
- 2018- Chairman, Student Mobility Committee, University of Szeged, Faculty of Medicine
- 2017 Jury chairman, 24<sup>th</sup> Conference of Students' Research Societies, Târgu Mures, Romania
- 2016- Deputy education director (university program), Szeged Scientists Academy
- 2016- Chairman of the Students' Research Association Council of the Faculty of Medicine, University of Szeged
- 2015 Supervision of JPEMS students
- 2014- International Relations Committee, University of Szeged, Faculty of Medicine
- 2013-2014 UEG Future Trends Committee Scenario Project, working group member
- 2013- Foundation for the Future of Biomedical Sciences in Szeged, Szent-Györgyi mentor
- 2012- Abstract reviewer, United European Gastroenterology Week
- 2011-2016 Secretary of the Students' Research Association Council of the Faculty of Medicine, University of Szeged
- 2010 Extramural evaluation of scholarly and professional contributions, UCLA, Los Angeles, CA, USA
- 2009- Referee, National Conference of Students' Research Societies, Section of Medicine and Health Sciences
- 2008-2014 Member of the Student Mobility Committee, University of Szeged, Faculty of Medicine
- 2006- Jury member and chairman, University of Szeged, Faculty of Medicine, Annual Students' Research Conference
- 2005- Board member and secretary of EPC2009 Pancreatic Research Foundation

**Publications:**

- Full papers: 108
- Book chapters: 2
- Electronic publications: 3
- Conference proceeding: 1
- Editorials: 2
- Books edited: 10
- E-learning course materials: 2
- Abstracts: 270

**Scientometrics:**

IF: 407.7  
 Independent citations: 2111  
 Hirsch-index: 30

Detailed list of publications can be accessed at:

<https://vm.mtmt.hu//search/slist.php?lang=1&AuthorID=10000098>

**Languages:**

- Hungarian (native)
- English (fluent)
- Russian (basic)

Szeged, 31 July 2019