

OPEN CALL



**Abstract Selection
Committee
Member-
Basic Science
2015-2018**



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APPLICATION FORM

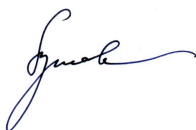
for Abstract Selection Committee Member (representing Basic Science) of the European Pancreatic Club (EPC)

1	Personal data	Name: Richard Szmola MD, PhD Username (www.e-p-c.org): szmola Country: Hungary National Society: Hungarian Pancreatic Society
2	Membership	List of years when the applicant was member of EPC (if applicable): 2007, 2009, 2012 List of years when the applicant attended the annual EPC meeting (if applicable): 2007, 2009, 2012 List of years when the applicant had communication(s) at the annual main or satellite EPC meeting: 2007 - 2014
3	Publications	List of the best 5 original/review papers in international journals: Szmola R and Sahin-Toth M. (2007) Chymotrypsin C (caldecrin) promotes degradation of human cationic trypsin: Identity with Rinderknecht's enzyme Y. <i>Proc. Natl. Acad. Sci. U.S.A.</i> 104 , 11227-11232 Rosendahl J*, Witt H*, Szmola R* , Bhatia E, Ozsvári B, Landt O, Schulz HU, Gress TM, Pfützer R, Löhr M, Kovacs P, Blüher M, Stumvoll M, Choudhuri G, Hegyi P, te Morsche RH, Drenth JP, Truninger K, Macek M Jr, Puhl G, Witt U, Schmidt H, Büning C, Ockenga J, Kage A, Groneberg DA, Nickel R, Berg T, Wiedenmann B, Bödeker H, Keim V, Mössner J, Teich N, Sahin-Tóth M. (2008) Chymotrypsin C (CTRC) variants that diminish activity or secretion are associated with chronic pancreatitis. <i>Nat Genet.</i> 40(1) , 78-82 Szmola R , Sahin-Tóth M. (2010) Pancreatitis-associated chymotrypsinogen C (CTRC) mutant elicits endoplasmic reticulum stress in pancreatic acinar cells. <i>Gut.</i> 59(3) , 365-72. Szmola R , Bence M, Carpentieri A, Szabó A, Costello CE, Samuelson J, Sahin-Tóth M. (2011) Chymotrypsin C is a co-activator of human pancreatic procarboxypeptidases A1 and A2. <i>J Biol Chem.</i> 286(3) , 1819-27. Witt H, Beer S*, Rosendahl J*, Chen JM*, Chandak GR*, Masamune A*, Bence M*, Szmola R* és mtsai. (2013) Variants in CPA1 are strongly associated with early-onset chronic pancreatitis. <i>Nat Genet.</i> 45(10) , 1216-20.

4	Previous positions at EPC or UEG	None (Session Chair at EPC yearly meetings)
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The applicant confirms that she/he

- has read the Open call for Abstract Selection Committee Member (Basic Science) position and fully accept its content
- has adequate time resources for volunteer work
- has good command of spoken and written English



RICHARD SZMOLA
Name

April 30, 2014
Date

Curriculum Vitae: Richard Szmola

Name: Richard Szmola, M.D., Ph.D.

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National Institute of Oncology
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Budapest, H-1122, Hungary
Phone: (011-36)-20-825-0531
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Education

1998 – 2005. MD Degree, Semmelweis University of Medicine

2004 – 2008. PhD Degree, Pathobiochemistry Program, Semmelweis University of Medicine, Budapest, Hungary

2005 – 2011. Board Certification in Gastroenterology, 2nd Dept. of Internal Medicine, Semmelweis University of Medicine, Budapest, Hungary

Workplaces

2005 – 2006. Semmelweis University, 2nd Department of Internal Medicine

Position: resident physician (gastroenterology program)

2006 – 2008. Department of Molecular and Cell Biology, Boston University Medical Center, Boston, USA

Position: postdoctoral research fellow in the laboratory of Prof. Sahin-Toth

2008 – 2009. Department of Molecular and Cell Biology, Boston University Medical Center, Boston, USA

Position: research associate in the laboratory of Prof. Sahin-Toth

Description: Partly funded by a research grant from the National Pancreas Foundation

2009 – 2011. Semmelweis University, 2nd Department of Internal Medicine

Position: postdoctoral research and clinical fellow

Description: Postdoctoral Fellowship funded by EEA grants/Norway grants

2011 – Principle Investigator, 2nd Dept. of Medicine, Semmelweis University, Budapest, Hungary

2013 – Assistant Professor, Department of Interventional Gastroenterology, National Institute of Oncology, Budapest, Hungary

Study trips

2003 (10 month). Department of Molecular and Cell Biology, Boston University Medical Center, Boston, USA

Sponsor: Professor Miklós Sahin-Tóth

Research topic: The role of mesotrypsin (PRSS3) and its disease associated mutations in the pathogenesis of chronic pancreatitis.

2005 (6 month). Göttingen University Hospital, Göttingen, Germany

Sponsor: Erasmus

Purpose: clinical training in gastroenterology and hepatology.

2006 (40 month). Department of Molecular and Cell Biology, Boston University Medical Center, Boston, USA

Sponsor: Professor Miklós Sahin-Tóth

Research topic: The role of digestive proteases (chymotrypsinogen C) and their disease associated mutations in the pathogenesis of chronic pancreatitis.

Role in scientific community

2003 - EPC (European Pancreatic Club), member, session chair at yearly meetings

2003 - Hungarian Pancreatic Club, member, session chair at yearly meetings

2003 - APA (American Pancreatic Association), member

2003 - IAP (International Association of Pancreatology), member

2004 - Hungarian Association of Gastroenterology, member

2006 - Hungarian Working Group of Young Gastroenterologists, member

2007 – 2009. AGA (American Gastroenterological Association), trainee member

2009 – 2012. Pancreas 2000 research program

Prizes and awards

2003. National Pancreas Foundation Travel Scholarship for the 4th International Symposium on Inherited Diseases of the Pancreas

by: National Pancreas Foundation

Achievement: abstract prize

2005. "Mindentudás Egyeteme" Presentation Award (Life Sciences Category)

by: Hungarian Academy of Sciences

Achievement: presentation prize

2006. Travel Scholarship for the 27th Annual Meeting of the German Pancreatic Club

by: German Pancreatic Club

Achievement: abstract prize

2007. Travel Scholarship for the 39th Meeting of the European Pancreatic Club

by: European Pancreatic Club

Achievement: abstract prize

2008. Travel Scholarship for the 39th Meeting of the American Pancreatic Association

by: American Pancreatic Association

Achievement: abstract prize

2008. NATIONAL PANCREAS FOUNDATION RESEARCH GRANT

by: NPF

Achievement: funded research proposal

2009. MAGYARY ZOLTÁN POSTDOCTORAL FELLOWSHIP

by: EEA grants/Norway grants

Achievement: Postdoctoral fellowship and research support helping the mobility of internationally known young researchers back to their native.

2009. Best Poster Award, Science Day, Boston University

by: Boston University

Achievement: best poster

2009. Travel Scholarship for the 41st Meeting of the European Pancreatic Club

by: European Pancreatic Club

Achievement: abstract prize

2010. JUNIOR PRIMA PRIZE, Category: science

by: Magyar Fejlesztési Bank Zrt.

Achievement: To acknowledge the accomplishment of the currently best and in many ways unique young researchers in Hungary.

2010. Madaus prize

by: Hungarian Association of Gastroenterology

Achievement: publication prize (Gut. 59(3), 365-72.)

2011. Bolyai János Research Fellowship

by: Hungarian Academy of Sciences

Achievement: award for outstanding postdoctoral researchers.

Professional interests

Molecular biology and genetics of pancreatic diseases, interventional endoscopy

Languages English, German

Publications

Abstracts (oral presentations*):

***R. Szmola**: The role of the evolutionary G198R mutation in the function of human mesotrypsin, 4th International Symposium on Inherited Diseases of the Pancreas, 2003, Chicago, USA

R. Szmola, Z. Kukor and M. Sahin-Tóth: Cathepsin B preferentially activates mesotrypsinogen of the three human trypsinogen isoforms, 4th International Symposium on Inherited Diseases of the Pancreas, 2003, Chicago, USA; *Pancreatology* **3**, 434

Z. Kukor, **R. Szmola** and M. Sahin-Tóth: Human mesotrypsin rapidly degrades trypsin inhibitors, 4th International Symposium on Inherited Diseases of the Pancreas, 2003, Chicago, USA; *Pancreatology* **3**, 434

R. Szmola, Z. Kukor and M. Sahin-Tóth: The evolutionary G198R mutation is responsible for the inhibitor resistance and substrate restriction of human mesotrypsin, 4th International Symposium on Inherited Diseases of the Pancreas, 2003, Chicago, USA; *Pancreatology* **3**, 433-434

***R. Szmola**, Z. Kukor and M. Sahin-Tóth: The role of the evolutionary G198R mutation in the biological function of human mesotrypsin, 46th Meeting of the Hungarian Society of Gastroenterology, 2004, Balatonaliga, Hungary

R. Szmola and M. Sahin-Tóth: The hunt for the mysterious Enzyme Y: A progress report. 37th Annual Meeting of the American Pancreatic Association and 13th Meeting of the International Association of Pancreatology, 2006, Chicago, USA; *Pancreas*, **33** (4), 500

***R. Szmola**, B. Ózsvári and M. Sahin-Tóth: Chymotrypsin C Regulates Degradation of Human Cationic Trypsin, Digestive Disease Week, 2007, Washington DC, USA; *Gastroenterology*, **132** (4), Suppl 2, A-31

R. Szmola, B. Ózsvári and M. Sahin-Tóth: Chymotrypsin C (caldecrin) promotes degradation of human cationic trypsin, 39th Meeting of the European Pancreatic Club, 2007, NewcastleGateshead, UK; *Pancreatology* **7**, 290

J. Rosendahl, H. Witt, ***R. Szmola**, N. Teich, M. Sahin-Tóth: Genetic Defects in the Trypsin Degrading Enzyme Chymotrypsin C (CTRC) are associated with Chronic Pancreatitis, Digestive Disease Week, 2008, San Diego, USA; *Gastroenterology*, **133** (4), Suppl 1, A-10

M.H.M. Derikx, M. Sahin-Toth, R.H.M. te Morsche, **R. Szmola**, S. Sundaresan, A. Chacko, J.P.H. Drenth: Chymotrypsinogen C (CTRC) variants as genetic susceptibility factors in tropical calcific pancreatitis, Joint Meeting of the European Pancreatic Club and the International Association of Pancreatology, 2008, Lodz, Poland; *Pancreatology* **8**, 285-400

E. Kereszturi, **R. Szmola**, Z. Kukor, P. Simon, F.U. Weiss, M.M. Lerch, M. Sahin-Tóth: Hereditary pancreatitis caused by mutation induced misfolding of human cationic trypsinogen – a novel disease mechanism. 39th Annual Meeting of the American Pancreatic Association, 2008, Chicago, USA

R. Szmola and M. Sahin-Tóth: A pancreatitis-associated chymotrypsinogen C mutant elicits endoplasmic reticulum stress and apoptosis. 39th Annual Meeting of the American Pancreatic Association, 2008, Chicago, USA

***R. Szmola** and M. Sahin-Tóth: A pancreatitis-associated chymotrypsinogen C mutant elicits endoplasmic reticulum stress and apoptosis. 51st Meeting of the Hungarian Society of Gastroenterology, 2009, Tihany, Hungary; *Z Gastroenterol* **47**, 483

***R. Szmola** and M. Sahin-Tóth: A Chronic Pancreatitis-Associated Chymotrypsinogen C (CTRC) Mutant Elicits Endoplasmic Reticulum Stress in Pancreatic Acinar Cells. 41st Meeting of the European Pancreatic Club, 2009, Szeged, Hungary; *Pancreatology* **9**, 429

R. Szmola, M. Bence, A. Carpentieri, J. Samuelson, C.E. Costello and M. Sahin-Tóth. Chymotrypsin C is required for the full activation of human procarboxypeptidases A1 and A2. 41st meeting of the American Pancreatic Association, 2010, Chicago, USA; *Pancreas* **39**(8), 1350

R. Szmola, M. Bence, A. Carpentieri, A. Szabo, C.E. Costello, J. Samuelson and M. Sahin-Tóth. Chymotrypsin C is a co-activator of human pancreatic procarboxypeptidases A1 and A2. International Research Workshop on Acute Pancreatitis, 2011, Szeged, Hungary

Invited speaker:

R. Szmola: Loss-of-function human anionic trypsinogen mutations G191R and G83R promote autodegradation through different mechanisms, 27th Annual Meeting of the German Pancreatic Club, 2006, Greifswald, Germany

R. Szmola: The role of chymotrypsin C in trypsin degradation, Meeting of the Hungarian Academy of Sciences, Section Hepato-gastroenterology, 2006, Szeged, Hungary

R. Szmola: Regulation of trypsin activity in the pathomechanism of chronic pancreatitis, Invited Seminar Speaker, Department of Molecular and Cell Biology, Boston University Medical Center, 2008, Boston, USA

R. Szmola: Advances in the Genetics of Chronic Pancreatitis, 3rd National Pancreas Foundation Fellow Symposium, 2008, Chicago, USA

R. Szmola: The role of chymotrypsin C (CTRC) in chronic pancreatitis, MD Anderson Cancer Center, 2008, Houston, USA

R. Szmola: Genetics of pancreatic diseases. 1st Conference of the Hungarian Pancreatic Study Group, 2012, Szeged, Hungary

Peer-Reviewed Publications

Szmola R*, Kukor Z*, Sahin-Toth M. (2003) Human mesotrypsin is a unique digestive protease specialized for the degradation of trypsin inhibitors. *J Biol Chem.* **278**, 48580-48589

Ronai Z, Szantai E, **Szmola R**, Nemoda Z, Szekely A, Gervai J, Guttman A and Sasvari-Szekely M. (2004) A novel A/G SNP in the -615th position of the dopamine D4 receptor promoter region as a source of misgenotyping of the -616 C/G SNP. *American Journal of Medical Genetics Part B (Neuropsychiatric Genetics).* **126B**, 74-78

Szantai E*, **Szmola R***, Sasvari-Szekely M, Guttman A, Ronai Z. (2005) The polymorphic nature of the human dopamine D4 receptor gene: a comparative analysis of known variants and a novel 27 bp deletion in the promoter region. *BMC Genet.* **6 (1)**, 39

Szmola R and Sahin-Toth M. (2007) Chymotrypsin C (caldecrin) promotes degradation of human cationic trypsin: Identity with Rinderknecht's enzyme Y. *Proc. Natl. Acad. Sci. U.S.A.* **104**, 11227-11232

Rosendahl J*, Witt H*, **Szmola R***, Bhatia E, Ozsvári B, Landt O, Schulz HU, Gress TM, Pfützer R, Löhr M, Kovacs P, Blüher M, Stumvoll M, Choudhuri G, Hegyi P, te Morsche RH, Drenth JP, Truninger K, Macek M Jr, Puhl G, Witt U, Schmidt H, Büning C, Ockenga J, Kage A, Groneberg DA, Nickel R, Berg T, Wiedenmann B, Bödeker H, Keim V, Mössner J, Teich N, Sahin-Tóth M. (2008) Chymotrypsin C (CTRC) variants that diminish activity or secretion are associated with chronic pancreatitis. *Nat Genet.* **40(1)**, 78-82

Kereszturi E, **Szmola R**, Kukor Z, Simon P, Weiss FU, Lerch MM, Sahin-Tóth M. (2009) Hereditary pancreatitis caused by mutation induced misfolding of human cationic trypsinogen – a novel disease mechanism. *Hum Mut.* **30(4)**, 575-582

Szmola R and Whitcomb CD. (2009) Molecular Genetics of Chronic Pancreatitis. *Encyclopedia of Life Sciences (ELS)*. John Wiley & Sons, Ltd: Chichester. <http://www.els.net/> [DOI: 10.1002/9780470015902.a0021481]

Medveczky P, **Szmola R** and Sahin-Tóth M. (2009) Proteolytic activation of human pancreatitis associated protein is required for peptidoglycan binding and bacterial aggregation. *Biochem J.* **420(2)**, 335-343

Derikx MH*, **Szmola R***, te Morsche RH, Sunderasan S, Chacko A, Drenth JP. (2009) Tropical Calcific Pancreatitis and its association with CTRC and SPINK1 (p.N34S) variants. *Eur J Gastroenterol Hepatol.* **21(8)**, 889-94

Szmola R, Sahin-Tóth M. (2010) Pancreatitis-associated chymotrypsinogen C (CTRC) mutant elicits endoplasmic reticulum stress in pancreatic acinar cells. *Gut.* **59(3)**, 365-72.

Szmola R, Sahin-Tóth M. (2010) Uncertainties in the classification of human cationic trypsinogen (PRSS1) variants as hereditary pancreatitis-associated mutations. *J Med Genet.* **47(5)**, 348-50.

Rosendahl J, Teich N, Kovacs P, **Szmola R**, Blüher M, Gress TM, Hoffmeister A, Keim V, Löhr M, Mössner J, Nickel R, Ockenga J, Pfützer R, Schulz HU, Stumvoll M, Wittenburg H, Sahin-Tóth M, Witt H. (2010) Complete analysis of the human mesotrypsinogen gene (PRSS3) in patients with chronic pancreatitis. *Pancreatology.* **10(2-3)**, 243-9.

Szmola R, Bence M, Carpentieri A, Szabó A, Costello CE, Samuelson J, Sahin-Tóth M. (2011) Chymotrypsin C is a co-activator of human pancreatic procarboxypeptidases A1 and A2. *J Biol Chem.* **286(3)**, 1819-27.

Szmola R, Rácz K, Tulassay Z, Miheller P. (2012) Endoscopic solutions for stricturing Crohn's disease. *Interventional Medicine & Applied Science.* **4(2)**, 74-44.

Witt H, Beer S*, Rosendahl J*, Chen JM*, Chandak GR*, Masamune A*, Bence M*, **Szmola R*** és mtsai. (2013) Variants in CPA1 are strongly associated with early-onset chronic pancreatitis. *Nat Genet.* **45(10)**, 1216-20.

Research Support

I. CURRENT SUPPORT:

2011–2014. Hungarian Scientific Research Fund (OTKA PD-101808)

The role of microRNAs in the diagnosis and pathogenesis of chronic pancreatitis

€100,000

II. PAST SUPPORT:

2009–2011. EEA grants/Norway grants (R.Szmola, PI)

The role of carboxypeptidase A1 gene mutations in the pathomechanism of chronic pancreatitis

€31,000

2008–2009. Research Grant (R. Szmola, PI)

National Pancreas Foundation

Chymotrypsin C Secretion Defects in Chronic Pancreatitis

€40,000

Budapest, 2014-05-01