

Curriculum Vitae

Krisztina Köröskényi

Personal Profile

Name	Krisztina Köröskényi
Date of birth	13 th March, 1979
Place of Birth	Nyíregyháza, Hungary
Marital status	married
Nationality	Hungarian

Appointment(s)

Senior lecturer (from March 1, 2017-)

Faculty:	Faculty of Dentistry
University:	University of Debrecen
Department:	Department of Dental Biochemistry

Assistant lecturer (from March 1, 2011- March 1, 2017)

Faculty:	Faculty of Dentistry
University:	University of Debrecen
Department:	Department of Dental Biochemistry

administration coordinator (from January 1, 2013-)

Doctoral School of Dental Sciences, University of Debrecen

Languages

Hungarian	native
English	IELTS 6.0, academic/ State Exam, Intermediate Level
Russian	basic

Education

M.Sc. in Molecular Biology *{Biochemistry specialization}*

Faculty:	Faculty of Sciences
University:	University of Debrecen
Grade:	excellent
Year of Passing:	7 th February, 2007
Nr:	T-30/2007

{Title of thesis: The effects of tissue transglutaminase on pro-inflammatory cytokine production of macrophages, (in Hungarian); Advisor: Zsuzsa Szondy, M.D., Ph.D., DSc.}

Ph.D degree in Clinical Medicine

Faculty:	Faculty of Medicine
University:	University of Debrecen
Grade:	cum laude
Year of Passing:	9 th December, 2011
Nr:	31/2012

{Title of thesis: Influence of tissue transglutaminase and adenosine/A_{2A} receptor on the inflammatory response of macrophages (in English); Advisor: Zsuzsa Szondy, M.D., Ph.D., DSc.}

Other Educations

Advanced training course in radiation safety

{on the basis of 16/2000 (VI.8.) statute, 2nd point of appendix .nr4; Ministry of Health, Hungary}

Nr: 322/2003

Date: 19th November, 2003

Laboratory animal science and experimental design, C-level

{conform with the 2nd paragraph of the 86/609/EEC of European Union}

Nr: 066/2007

Date: 5th December, 2007

Experience Abroad

EF Language School & University of Auckland, Auckland, New-Zealand

Date: Sept. 2004 - May. 2005

EF Language School, Cambridge, England, United Kingdom

Date: May-June, 2005

Chung Shan Medical University, Taichung, Taiwan

Date: Nov-Dec., 2009

Department: Institute of Immunology

Advisor: Prof. Gregory J. Tsay, M.D., Ph.D. DSc.

Current Memberships in Professional Societies

Hungarian Biochemical Society {member since 2006}

European Cell Death Organization {member since 2008}

Hungarian Immunological Society {member 2009}

Awards

1st prize in the Cell Biology

Cell Biology Section of XXVIII. National Scientific Student Conference, Debrecen, Hungary, 2007

OTKA Postdoctoral Fellowship 2017 (PD_17)

Research Activity

Studies on the role of tissue transglutaminase (TG2) and adenosine A_{2A} receptor in the anti-inflammatory effect of apoptotic cell uptake in mouse macrophage system

- as undergraduate student (2003-2007); as Ph.D. student (2007-)

{Apoptosis Signaling Research Laboratory (Leader: Zsuzsa Szondy, M.D., Ph.D. DSc.) Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen}

Studies on the role of adenosine A_{2A} receptor in the LPS-induced inflammatory responses of mouse macrophages

- as Ph.D. student (2007-); as postdoc (2011-)

{Apoptosis Signaling Research Laboratory (Leader: Zsuzsa Szondy, M.D., Ph.D. DSc.) Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen}

Studies on the role of Nur77 orphan nuclear receptor in the anti-inflammatory effect of apoptotic cell uptake in mouse macrophage system

- as postdoc (2011-2013)

{Apoptosis Signaling Research Laboratory (Leader: Zsuzsa Szondy, M.D., Ph.D. DSc.) Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen}

Studies on the role of tissue transglutaminase (TG2) in the Ca²⁺ signalling of pancreatic β -cells.

- as postdoc (2011-2012)

{Apoptosis Signaling Research Laboratory (Leader: Zsuzsa Szondy, M.D., Ph.D. DSc.) Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen}

Generation of mouse embryonal stem cell line (gene knock-in/knock-down).

- as postdoc (2011-2012)

{Apoptosis Signaling Research Laboratory (Leader: Zsuzsa Szondy, M.D., Ph.D. DSc.) Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen}

Identification of potential biomarkers in the tear samples of patients diagnosed with Systemic Sclerosis.

- as postdoc (2013-)

{Department of Ophthalmology, University of Debrecen}

The potential role of defective apoptotic cell clearance in the development of chronic inflammatory diseases and obesity related type 2 diabetes.

- as postdoc (2015-)

{Apoptosis Signaling Research Laboratory (Leader: Zsuzsa Szondy, M.D., Ph.D. DSc.) Department of Biochemistry and Molecular Biology, Medical and Health Science Center, University of Debrecen}

Technical experiences

Immunology: ELISA, Flow cytometry, membrane-based and multiplex bead-based cytokine assay/array, NO/ROS quantification,

Molecular biology: Wester blot, RT-qPCR, protein/RNA/genomic and plasmid DNA/miRNA isolation, RNA interference, gene delivery (with siRNA, virus-delivered shRNA)

In vivo animal experiments (mouse model)

Cell culturing (cell lines, primer cells, embrional stem cells)

Publications

2009

Sarang Z, Tóth B, Balajthy Z, **Köröskényi K**, Garabuczi E, Fésüs L, Szondy Z **Some lessons from the tissue transglutaminase knockout mouse.** *Amino Acids.* 2009 Apr; 36(4):625-31.

2011

Sarang Z, **Köröskényi K**, Pallai A, Duró E, Melino G, Griffin M, Fésüs L, Szondy Z. **Transglutaminase 2 null macrophages respond to lipopolysaccharide stimulation by elevated proinflammatory cytokine production due to an enhanced $\alpha_v\beta_3$ integrin-induced Src tyrosine kinase signaling.** *Immunol Lett.* 2011 Jul; 138(1):71-8.

Köröskényi K, Duró E, Pallai A, Sarang Z, Kloor D, Ucker DS, Beceiro S, Castrillo A, Chawla A, Ledent CA, Fésüs L, Szondy Z; **Involvement of Adenosine A_{2A} Receptors in Engulfment-Dependent Apoptotic Cell Suppression of Inflammation.**

J Immunol. 2011 Jun 15; 186(12):7144-55.

2012

Szondy Z, Garabuczi É, Tóth K, Kiss B, **Köröskényi K**. **Thymocyte death by neglect: contribution of engulfing macrophages.** *Eur J Immunol.* 2012 Jul; 42(7):1662-7.

2014

Mihály J, Marosvölgyi T, Szegedi A, **Köröskényi K**, Lucas R, Törőcsik D, Garcia AL, Decsi T, Rühl R. **Increased FADS2-derived n-6 PUFAs and reduced n-3 PUFAs in plasma of atopic dermatitis patients.** *Skin Pharmacol Physiol.* 2014; 27(5):242-8.

Duró E, Pallai A, **Köröskényi K**, Sarang Z, Szondy Z. **Adenosine A₃ receptors negatively regulate the engulfment-dependent apoptotic cell suppression of inflammation.** *Immunol Lett.* 2014 Jul 3. pii: S0165-2478(14)00127-8.

2015

Yen JH, Lin LC, Chen MC, Sarang Z, Leong PY, Chang IC, Hsu JD, Chen JH, Hsieh YF, Pallai A, **Köröskényi K**, Szondy Z, Tsay GJ. **The metastatic tumor antigen 1-transglutaminase -2 pathway is involved in self-limitation of monosodium urate crystal-induced inflammation by upregulating TGF-beta1.** *Arthritis Res Ther.* 2015 Mar 19;17(1):65.

Rentka A, Hársfalvi J, Berta A, **Köröskényi K**, Szekanecz Z, Szűcs G, Szodoray P, Kemény-Beke A. **Vascular Endothelial Growth Factor in Tear Samples of Patients with Systemic Sclerosis.** *Mediators Inflamm.* 2015;2015:573681.

2016

Köröskényi K, Kiss B, Szondy Z **Adenosine A_{2A} receptor signaling attenuates LPS-induced pro-inflammatory cytokine formation of mouse macrophages by inducing the expression of DUSP1.** *Biochim Biophys Acta.* 2016 Apr 9;1863(7 Pt A):1461-1471.

Rentka A, Hársfalvi J, Szucs G, Szekanecz Z, Szodoray P, **Köröskényi K**, Kemény-Beke A. **Membrane array and multiplex bead analysis of tear cytokines in systemic sclerosis.** *Immunol Res.* 2016 Apr;64(2):619-26. doi: 10.1007/s12026-015-8763-9.

2017

Rentka A, **Köröskényi K**, Hársfalvi J, Szekanecz Z, Szucs G, Szodoray P, Kemény-Beke A. **Evaluation of commonly used tear sampling methods and their relevance in subsequent biochemical analysis.** *Ann Clin Biochem.* 2017 Jan 1:4563217695843

Szondy Z, Sarang Z, Kiss B, Garabuczi É, **Köröskényi K**. **Anti-inflammatory Mechanisms Triggered by Apoptotic Cells during Their Clearance.** *Frontiers In Immunology* 8: pp. 1-10. (2017)

2018

Szondy Z, Joós G, **Köröskényi K**, **Adenosine in the thymus.** *Front Pharmacol.* 2017 Dec 22;8:932.