

Renáta Gáspár



Personal data:

Name: **Renáta Gáspár**
Date of birth: 20th August 1987
Place of birth: Baja, Hungary
Nationality: Hungarian
E-mail address: gaspar.renata@med.u-szeged.hu

Education Carrier:

- 2007- 2009: Undergraduate student, BSc
Title of thesis: Fluorescent epitope-tagged histone H4 protein variant is in the investigation of chromatin structure
Supervisors: Tibor Pankotai Ph.D., Imre Boros Ph.D. Prof.
Department of Biochemistry and Molecular Biology
University of Szeged, Faculty of Science and Informatics
- 2009- 2011: Undergraduate student, MSc, teaching assistant
Research area: Identification of histone acetyltransferases, which are involved in ecdisone induced gene activation
Supervisors: Laszlo Bodai Ph.D., Imre Boros Ph.D. Prof.
Department of Biochemistry and Molecular Biology
University of Szeged, Faculty of Science and Informatics
- 2011- PhD student, subhead of cell culture laboratory
Research area: Cardioprotective effects of small leucine rich proteoglycans
Supervisors: Tamás Csont M.D., Ph.D; Anikó Görbe M.D., Ph.D,
Department of Biochemistry
University of Szeged, Faculty of Medicine

Languages:

Hungarian (native)
English (fluent)
German (basic)

Scientific field:

- Research area: Role of small leucine rich proteoglycans in cardioprotection and endogenous stress adaptation
- Research experience: Classical methods of Drosophila genetics
- Creation of new transgenic Drosophila lines

- Molecular biological methods: molecular cloning, chromatin immunoprecipitation, PCR, transcript analysis by QRT-PCR
- Western blot, zymography, determination of enzyme activity
- Methods of primer cell culture and cell lines,
- In vitro simulated ischemia/reperfusion protocols
- Transfection methods
- Langendorff perfusion methods

Publications:

Ecdysone induced gene expression is associated with acetylation of histone H3 lysine 23 in *Drosophila melanogaster*.

Bodai L, Zsindely N, **Gáspár R**, Kristó I, Komonyi O, Boros IM.
PLoS One. 2012;7 (7):e40565

MicroRNA-25-dependent up-regulation of NADPH oxidase 4 (NOX4) mediates hypercholesterolemia-induced oxidative/nitrative stress and subsequent dysfunction in the heart.

Varga ZV, Kupai K, Szűcs G, **Gáspár R**, Pálóczi J, Faragó N, Zvara A, Puskás LG, Rázga Z, Tizslavicz L, Bencsik P, Görbe A, Csonka C, Ferdinandy P, Csont T.
J Mol Cell Cardiol. 2013 Sep;62:111-21.

Effect of a multivitamin preparation supplemented with phytosterol on serum lipids and infarct size in rats fed with normal and high cholesterol diet.

Csont T, Sárközy M, Szűcs G, Szűcs C, Bárkányi J, Bencsik P, **Gáspár R**, Földesi I, Csonka C, Kónya C, Ferdinandy P.
Lipids Health Dis. 2013 Sep 25;12(1):138.

MicroRNAs associated with ischemia-reperfusion injury and cardioprotection by ischemic pre- and postconditioning: protectomiRs.

Varga ZV, Zvara A, Faragó N, Kocsis GF, Pipicz M, **Gáspár R**, Bencsik P, Görbe A, Csonka C, Puskás LG, Thum T, Csont T, Ferdinandy P.
Am J Physiol Heart Circ Physiol. 2014 Jul 15;307(2):H216-27

Conferences:

Meeting of Hungarian Biochemical Society, 2010

25-28th August 2010, Budapest, Hungary

Kristó Ildikó, Zsindely Nóra, **Gáspár Renáta**, Boros Imre, Bodai László
Ekdizon függő gének szabályozásában szerepet játszó hiszton acetiltransferázok azonosítása

Gáspár Renáta, Zsindely Nóra, Kristó Ildikó, Boros Imre, Bodai László
Hisztonacetilációs mintázatok vizsgálata génaktiváció során *Drosophila melanogaster*ben

9th EMBL Conference Transcription and Chromatin

28-31st August 2010, Heidelberg, Germany

László Bodai, Nóra Zsindely, Ildikó Kristó, **Renáta Gáspár**, Imre Boros
Histone acetylation patterns upon ecdysone induced gene activation in *Drosophila*

The XXXI ISHR European Section Meeting in association with the ESC Heart failure association

19-22nd May 2013, Belgrade, Serbia

Development and screening of matrix metalloproteinase inhibitors against ischemia reperfusion injury

Krisztina Kupai, Anikó Görbe, Zoltán V. Varga, János Pálóczi, **Renáta Gáspár**, László Kovács, Ferenc Takács, Sándor Cseh, Csaba Csonka, Tamás Csont, Péter Ferdinandy

ISMC 2013 VII. International Symposium on Myocardial Cytoprotection

26-28th September 2013, Pécs, Hungary

Anti-hypercholesterolemic effect of a preparation of vitamins, minerals and trace elements in hyperlipidemia

Márta Sárközy, Gergő Szűcs, Csilla Szűcs, Judit Bárkányi, Péter Bencsik, **Renáta Gáspár**, Csaba Csonka, Csaba Kónya, Péter Ferdinandy, Tamás Csont

Joint Meeting of the Hungarian Physiology, Microcirculation and Pharmacology, 2013

5-8th June 2013, Budapest, Hungary

A biglikán „core protein” védő hatású a szívizomsejtek szimulált iszkémia/reoxigenizációs károsodásával szemben

Gáspár Renáta, Görbe Anikó, Pálóczi János, Varga V. Zoltán, Ferdinandy Péter, Csont Tamás

ISHR, 2013, San Diego, USA

MicroRNA-25-dependent up-regulation of NOX4 mediates hypercholesterolemia-induced oxidative/nitrative stress and subsequent dysfunction in heart (poszter)

Zoltán V. Varga, Krisztina Kupai, Gergő Szűcs, **Renáta Gáspár**, János Pálóczi, Nóra Faragó, Ágnes Zvara, László G. Puskás, Anikó Görbe, Csaba Csonka, Péter Ferdinandy, Tamás Csont

Hungarian Society Of Cardiology, Scientific Congress of 2014

14-17th May 2014, Balatonfüred, Hungary

Small leucine rich proteoglycans protect cardiomyocytes against simulated ischemia/reperfusion injury

Gáspár Renáta, Görbe Anikó, Pálóczi János, Varga V. Zoltán, Gömöri Kamilla, Ferdinandy Péter, Csont Tamás

Anti-hypercholesterolemic effect of a preparation of vitamins, minerals and trace elements in experimental hyperlipidemia

Sárközy Márta, Szűcs Gergő, Szűcs Csilla, Bárkányi Judit, Bencsik Péter, **Gáspár Renáta**, Kónya Csaba, Ferdinandy Péter, Csont Tamás

Frontiers in CardioVascular Biology 2014

3-6th July 2014, Barcelona, Spain

MicroRNAs involved in cardioprotection by ischemic pre- and postconditioning: ProtectomiRs

ZV Varga, A Zvara, N Farago, M Pipicz, **R Gaspar**, A Gorbe, GL Puskas, T Csont, T Thum, P Ferdinandy

Anti-hypercholesterolemic effect of a preparation of vitamins, minerals and trace elements in experimental hyperlipidemia

M Sarkozy, G Szucs, CS Szucs, J Barkanyi, P Bencsik, **R Gaspar**, CS Csonka, CS Konya, P Ferdinandy, T Csont

Cardiac myocytes are protected by small leucine rich proteoglycans against simulated ischemia/reperfusion injury

R Gaspar, A Gorbe, J Paloczi, ZV Varga, K Gomori, P Ferdinandy, T Csont

European Section Meeting of the International Academy of Cardiovascular Sciences (IACS)
8-11th October 2014, Balatonyörök, Hungary

Cardiac myocytes are protected by small leucine rich proteoglycans against simulated ischemia/reperfusion injury.

Renata Gaspar, A Gorbe, J Paloczi, ZV Varga, P Ferdinandy, T Csont

Memberships

Hungarian Biochemistry Society

Hungarian Cardiology Society

ESC-ISHR (European Society of Cardiology – International Society for Heart research)

Scholarships and awards

Szent Imre Scholarship 2009

Szent Imre Scholarship 2010

Regional Scientific Student Conference, 2010

Session of Molecular Biology 1st prize

Sófi József for the talent Biologist Scholarship, MSc session, 3rd prize

Scholarship of Szeged city 2011

National Scientific Student Conference, 2011

Session of Signal transduction and regulation, 3rd prize

Campus Hungary Scholarship, 2013

Lykeon Scholarship, 2014

Award of 'the best practice teacher on the 2nd year in the year 2013/2014'