CURRICULUM VITAE

PERSONAL INFORMATION

Full name: Márta Julianna Sárközy MD PhD
Date and place of birth: 13th March, 1986, Békéscsaba, Hungary
Nationality: Hungarian
Address (office): Department of Pathophysiology
Albert Szent-Györgyi Medical School, University of Szeged
Szeged, Szőkefalvi-Nagy Béla utca 6, H-6720, Hungary
E-mail addresses: sarkozy.marta@med.u-szeged.hu

EDUCATION

2013 Ph.D., summa cum laude, Faculty of Medicine, Doctoral School of Multidisciplinary Medicine, University of Szeged, Hungary,
2011 University diploma: Medical Translator and Interpreter, Faculty of Medicine, Medical Translation and Interpreting Program, Univ. of Szeged, Hungary
2010 University diploma: General Medicine, summa cum laude, Faculty of Medicine, Univ. of Szeged, Hungary

LANGUAGE CERTIFICATES

2011 English (medical), level C1, oral (1339470)
2010 English (medical), level C1 written (1232949)
2010 German (medical), level C1, oral and written (1186692)
2009 German (general), level C1, oral and written (1084848)
2003 Latin (general), level B2, oral and written (384367)

POSITIONS HELD (Albert Szent-Györgyi Medical School, Univ. of Szeged, Hungary)

01/07/2023- Associate professor (Dept of Pathophysiology)
2022-2023 Associate professor (Dept. of Biochemistry)
2015-2022 Assistant professor (Dept. of Biochemistry)
2014-2015 Research fellow (Dept. of Biochemistry)
2013-2014 Postdoc (Ányos Jedlik Scholarship, Dept. of Biochemistry)
2010-2013 PhD student (Dept. of Biochemistry)
2008-2010 Demonstrator (teaching assistant as an undergraduate student, Dept. of Biochemistry)
2006-2010 Undergraduate Student – Scientific Research Circle (Dept. of Biochemistry)

TEACHING ACTIVITIES

2023- Mentor of the Szeged Scientist Academy (Zsombor Greschik and András Gulyás)
2021 Gold medalist for master teachers (https://otdk.hu/storage/pages/aktualis/MT%20nyertesek_2021.pdf)
2016-2019 Junior Mentor of the Szeged Scientist Academy (Fanni Márványkövi)
2019- Habilitation (summa cum laude, Theoretical Medicine, Medical Biochemistry), University of Szeged, Hungary

Graduate education

2023/24/1 Pathophysiology seminars for 3rd-year medical students (in Hungarian and German)
2023/24/1 Pathophysiology lectures for 3rd-year medical students (in Hungarian and English)
2019-2023 Educational Affairs - German Program (Dept. of Biochemistry)
2015/2016/2- Selected Chapters in Medical Biochemistry (lecture) for 2nd-year medical students in Hungarian and English (8 semesters)
2014/2015/2- Medical Biochemistry Lectures for 2nd-year medical students in German (16 semesters)
2014/2015/2- Biochemistry Lectures for 2nd-year pharmacy students in Hungarian and English (9 semesters)
2014/2015/1- Basics of Scientific Research and journal club for medical students in Hungarian and English) (16 semesters)

2008/2009/1- Medical Biochemistry Seminars and Practices for 2nd-year medical students in Hungarian and German (30 semesters)

Postgraduate education (Doctoral School of Multidisciplinary Medicine, Biochemistry, Biophysics, Molecular and Cell Biology Program, University of Szeged, Hungary)
2014 - Biochemistry lectures for Ph.D. students in Hungarian (6 semesters)
2019 - Biochemistry lectures for Ph.D. students in English (2 semesters in the Stipendium Hungaricum Program)

SUPERVISION OF GRADUATE AND PH.D. STUDENTS
2018- Number of supervised PhD students: 9 (7 – 100%, 2 – 50%)
2018- Number of defended PhD thesis: 4 (https://doktori.hu/index.php?menuid=502&lang=EN)
2023- Current number of Ph.D. students: 4 (https://doktori.hu/index.php?menuid=502&lang=EN)
2015- Total number of defended university diploma theses: 14
2015- Total number of courseworks: 7 (5 First Prizes, 2 Second Prizes)
2012- Total number of supervised medical students: 28 (2011-2023)
- 48 local Students' Scientific Conference (TDK) presentations: 8 First Prizes, 16 Second Prizes, 8 Third Prizes, and 1 Special Award on the local Students' Scientific Conferences
- 24 qualifications to the National Students' Scientific Conferences (OTDK): 1 Pro Scientia Gold Medal, 2 First Prizes, 6 Second Prizes and 5 Special Awards on the National Students' Scientific Conferences

FELLOWSHIPS, RESEARCH GRANTS AND AWARDS
2023/24 Scholarship of the New National Excellence Program (ÚNKP-23-5)
2023-2026 János Bolyai Research Fellowship from the Hungarian Academy of Sciences (2023-2026)
2023 OMAA - Austro-Hungarian Foundation for Action (Projekt 113öu8)
2018-2023 NKFI_FK_129094 research grant (OTKA)
2018-2021 János Bolyai Research Fellowship from the Hungarian Academy of Sciences
2021 Nomination for Master Tutor Award (based on OTDK and TDK results)
2021 "Excellent TDK Tutor of the Faculty" Award (based on TDK results, Faculty of Medicine, Univ. of Szeged)
2020-2021 Scholarship of the New National Excellence Program (ÚNKP-20-5)
2019-2020 Scholarship of the New National Excellence Program (ÚNKP-19-4)
2018-2019 Scholarship of the New National Excellence Program (ÚNKP-18-4)
2019 Experimental Biology and Medicine (EBM) Outstanding Reviewer Award
2018-2019 OMAA – Austro-Hungarian Foundation for Action (Projekt 100öu3)
2017-2018 Scholarship of the New National Excellence Program (ÚNKP-17-4)
2016-2017 Scholarship of the New National Excellence Program (ÚNKP-16-4)
2016 Poster Award, 3rd European Section Meeting of the IACS, Marseille, France
2015 (1 mo) Dr. Szirmai Endre Foundation, Visiting scientist, Hannover Medical School, IMTTS, Germany.
2015 "Pro Laudanda Promotione" Award for excellent Ph.D. work (Univ. of Szeged)
2015 "Excellent TDK Tutor of the Faculty" Award (Faculty of Medicine, Univ. of Szeged)
2014 (3 mo) DAAD Scholarship, Visiting scientist, Hannover Medical School, IMTTS, Germany
2013-2014 Postdoctoral Fellow, National Excellence Program, "Jedlik Ányos Scholarship"
2010-2013 Ph.D. student (Dept. of Biochemistry, Faculty of Medicine, Univ. of Szeged, Hungary)
2011 Award of the Society of Pro Scientia Gold Medalists (for an excellent presentation at the National Students' Scientific Conference)
2009-2010 Scholarship of the Hungarian Republic
2009 Best Poster Presentation Award (20th European Students' Conference, Berlin, Germany)
2008-2010 Student Instructor (Dept. of Biochemistry, Faculty of Medicine, Univ. of Szeged, Hungary)
2006-2010 Student Research Fellow (Dept. of Biochemistry, Faculty of Medicine, Univ. of Szeged)
2006-2010 Student Research Fellow (Dept. of Biochemistry, Faculty of Medicine, Univ. of Szeged)

SCIENTIFIC INTERESTS

Therapeutic targets and molecular mechanisms in the development of heart failure in different disease models, including chronic kidney disease, radiation-induced heart disease, biological therapy- and chemotherapy-induced cardiotoxicity

SCIENTOMETRIC DATA

Number of full papers in international journals: 41 (1 book chapter)
Number of first and last author publications: 19
Number of D1 and Q1 publications: 18 and 14, resp.
Number of first and last author D1 and Q1 publications: 9 and 6, resp.
Cumulative impact factors of referred papers: 164.108 (first and last author articles IF: 86.525)
Total number of citations: 976 (MTMT), 1037 (Google Scholar)
Number of independent citations: 716 (MTMT)
h-index: 20, i10-index: 30 (Google Scholar), h-index: 19 (MTMT)
Number of oral presentations: 23 (international: 6, national: 17)
Number of poster presentations: 27 (international: 27, national: 0)
Researcher unique identifiers:
https://orcid.org/0000-0002-5929-2146
https://scholar.google.com/citations?user=T-Pybz8AAAAJ&hl=hu
https://www.researchgate.net/profile/Marta_Sarkozy
https://vm.mtmt.hu/www/index.php?AuthorID=10028929
https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10028929&view=pubTable

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2016-	member, Hungarian Society of Nephrology
2015-2021	member, Working Group of Clinical Chemistry, Hungarian Academy of Sciences
2012-	member, European Association of Cardiovascular Imaging
2010-	member, International Society for Heart Research (ISHR)
2010-	member, Hungarian Society of Cardiology
2010-	member, European Society of Cardiology (ESC)

REVIEWER FOR SCIENTIFIC JOURNALS

Acta Physiologica Hungarica (1), American Journal of Physiology, Heart and Circulatory Physiology (1), American Journal of Physiology, Renal Physiology (1), Biochemie (1), Biology (3), Bioscience, Biotechnology, and Biochemistry (1), Cardiovascular Diabetology (5), Cells (2), Experimental Biology and Medicine (1), ESC Heart Failure (3), General Physiology and Biophysics (1), Heliyon (1), International Journal of Environmental Research and Public Health (3), International Journal of Molecular Sciences (27), Journal of Cardiovascular Pharmacology and Therapeutics (1), Journal of the Renin-Angiotensin-Aldosterone System (1), Kidney and Dialysis (1), Life (3), Medicina (1), Molecules (4), Neurotoxicity Research (2), Oncotarget (1), Oxidative Medicine and Cellular Longevity (1), Pharmaceutics (2), Renal Failure (1), Respiratory Research (1), Vascular Pharmacology (1)

LIST OF PUBLICATIONS

I. First and last author publications:

1. Hoa Dinh, Zsuzsanna Z.A. Kovács, Fanni Márványkövi, Merse Kis, Klaudia Kupecz, Gergő Szűcs, Marah Freiwan, Gülsüm Yilmaz Lauber, Eylem Acar, Andrea Siska, Katalin Eszter Ibos, Éva Bodnár, András Kriston, Ferenc Kovács, Péter Horváth, Imre Földesi, Gábor Cserni, Bruno K. Podesser, Peter Pokreisz, Attila Kiss, László Dux#, Krisztina Csabafi*, Márta Sárközy*#. *The kisspeptin-1 receptor antagonist peptide-234 accelerates the development of uremic cardiomyopathy in a rat model.* (*These authors are equally contributed to the work. #Corresponding authors). 2023, **SCIENTIFIC REPORTS** (Multidisciplinary, D1, IF: 4.996). doi: 10.1038/s41598-023-41037-0

2. Márta Sárközy, Simon Watzinger, Zsuzsanna Kovács, Eylem Acar, Fanni Márványkövi, Gergő Szűcs, Gülsüm Lauber, Andrea Siska, Zsolt Galla, Imre Földesi, Attila Fintha, Andras Kriston, Ferenc Kovacs, Péter Horváth, Bence Kővári, Gábor Cserni, Tibor Krenács, Petra Szabó, Gábor Szabó, Péter Monostori, Karin Zins, Dietmar Abraham, Tamás Csont, Peter Pokreisz, Bruno K. Podesser, Attila Kiss. *Neuregulin-1β improves uremic cardiomyopathy and renal dysfunction in rats.* 2023. **JACC: BASIC TO TRANSLATIONAL SCIENCE** (Cardiology: D1, IF: 9.531). doi: 10.1016/j.jacbts.2023.03.003

3. M. Freiwan, G. Szűcs, Z.Z.A. Kovács, M.G. Kovács, R. Losonczi, A. Sója, H. Than, G. Cserni, A. Kriston, F. Kovács, P.Horváth, T. Csont, L. Dux, M. Sárközy. *The effect of losartan, mirabegron and their combination on the development of doxorubicin-induced chronic cardiotoxicity in a rat model*. **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES (**Organic chemistry: D1, Medicine, miscellaneous: Q1, IF: 6.208*). doi: 10.3390/ijms23042201

4. Tóth ME, Sárközy M, Szűcs G, Dukay B, Hajdu P, Zvara Á, Puskás LG, Szebeni GJ, Ruppert Z, Csonka C, Kovács F, Kriston A, Horváth P, Kővári B, Cserni G, Csont T, Sántha M. *Exercise training worsens cardiac performance in males but does not change ejection fraction and improves hypertrophy in females in a mouse model of metabolic syndrome.* **BIOLOGY OF SEX DIFFERENCES** (Gender studies: D1, IF: 8.811*). 2022 Jan 31;13(1):5. doi: 10.1186/s13293-022-00414-6

5. Mónika Gabriella Kovács, Zoltán Varga, Zsuzsanna Z.A. Kovács, Gergő Szűcs, Marah Freiwan, Andrea Siska, Katalin Farkas, Bence Kővári, Ferenc Kovács, András Kriston, Péter Horváth, Imre Földesi, Gábor Cserni, Eytan Barnea, Zsuzsanna Kahán, Tamás Csont, Márta Sárközy. *Investigation of the antihypertrophic and antifibrotic effects of losartan in a rat model of radiation-induced heart disease.* **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES** (Spectroscopy: D1, Medicine, miscellaneous: Q1, IF: 6.208). doi: 10.3390/ijms222312963

6. Zsuzsanna Z.A. Kovács, Gergő Szűcs, Marah Freiwan, Monika G. Kovács, Fanni M. Márványkövi, Hoa Dinh, Andrea Siska, Katalin Farkas, Ferenc Kovács, András Kriston, Péter Horváth, Bence Kővári, Bálint Gábor Cserni, Gábor Cserni, Imre Földesi, Tamás Csont, Márta Sárközy. *Comparison of the anti-remodeling effects of losartan and mirabegron in a rat model of uremic cardiomyopathy*. 2021, **SCIENTIFIC REPORTS** 2021 Sep 1;11(1):17495. doi: 10.1038/s41598-021-96815-5. (Multidisciplinary: D1, IF: 4.996).

7. Márta Sárközy*, Fanni Márványkövi*, Gergő Szűcs, Zsuzsanna Z.A. Kovács, Márton R. Szabó, Renáta Gáspár, Andrea Siksa, Bence Kővári, Gábor Cserni, Imre Földesi, Tamás Csont. *Ischemic preconditioning protects against ischemia-reperfusion injury in chronic kidney disease in both males and females*. 2021, **BIOLOGY OF SEX DIFFERENCES**. (Gender studies: D1, Endocrinology: Q1, IF: 8.811). *Thse authors are contributed equally.

8. Márta Sárközy, Mónika Kovács, Zsuzsanna Kovács, Gergő Szűcs, Renáta Gáspár, László Dux, Zsuzsanna Kahán, Tamás Csont. *Pathomechanisms and therapeutic opportunities in radiation-induced heart disease: from bench to bedside.* **CLINICAL RESEARCH IN CARDIOLOGY.** 110: 507–531 (2021). doi: 10.1007/s00392-021-01809-y. (Cardiology: D1, IF: 6.138).

9. Márta Sárközy, Renáta Gáspár, Ágnes Zvara, Laura Kiscsatári, Zoltán Varga, Bence Kővári, Mónika Gabriella Kovács, Gergő Szűcs, Gabriella Fábián, Gábor Cserni, László G. Puskás, Thomas Thum, Zsuzsanna Kahán, Tamás Csont, Sándor Bátkai. *Selective heart irradiation induces cardiac overexpression of the pro-hypertrophic miR-212.* **FRONTIERS IN ONCOLOGY.** 9:598 (2019). doi: 10.3389/fonc.2019.00598. (Medicine: miscelleous: D1, Oncology (Q1), IF: 4.137)

10. Márta Sárközy, Ágnes Zvara, Renáta Gáspár, Andrea Siska, Bence Kővári, Gergő Szűcs, Fanni Márványkövi, Mónika Gabriella Kovács, László Bodai, Nóra Zsindely, Márton Pipicz, Kamilla Gömöri, Krisztina Kiss, Péter Bencsik, Gábor Cserni, László G. Puskás, Imre Földesi, Thomas Thum, Zsuzsanna Kahán, Sándor Bátkai, Tamás Csont. *Chronic kidney disease induces cardiac overexpression of the pro-hypertrophic microRNA-212.* **SCIENTIFIC REPORTS.** 9:1302 (2019). doi: 10.1038/s41598-018-37690-5. (Multidisciplinary: D1, IF: 4.122).

11. Márta Sárközy, Zsuzsanna Kovács, Mónika G. Kovács, Renáta Gáspár, Gergő Szűcs, László Dux. *The role of oxidative/nitrative stress in type 4 cardio-renal syndrome and renal sarcopenia.* **FRONTIERS IN PHYSIOLOGY** 9:1648 (2018). doi: 10.3389/fphys.2018.01648. (Physiology: Q2, IF: 3.394).

12. Márta Sárközy, Zsuzsanna Kahán; Tamás Csont. *A myriad of roles of miR-25 in health and disease*. **ONCOTARGET** 9:21580-21612 (2018). doi: 10.18632/oncotarget.24662 (Oncology: Q1. IF:-)

13. Márta Sárközy, Renáta Gáspár, Kamilla Gömöri, László Dux, Csaba Csonka, Tamás Csont. *Effects of Proteoglycans on Oxidative/Nitrative Stress*. **CURRENT ORGANIC CHEMISTRY** 21:(20) pp. 2117-2124. (2017). *Márta Sárközy and Renáta Gáspár equally contributed to this work.* (Organic Chemistry: Q3, IF: 2.193).

14. Sarkozy M, Szucs G, Fekete V, Pipicz M, Eder K, Gaspar R, Soja A, Pipis J, Ferdinandy P, Csonka C, Csont T. *Transcriptomic alterations in the heart of non-obese type 2 diabetic Goto-Kakizaki rats.* **CARDIOVASCULAR DIABETOLOGY** 15: Paper 110. 21 p. (2016). doi: 10.1186/s12933-016-0424-3. (Cardiology and Cardiovascular Medicine: Q1, Endocrinology, Diabetes and Metabolism: Q1, IF: 4.752)

15. Sarkozy M, Szucs G, Pipicz M, Zvara A, Eder K, Fekete V, Szucs C, Barkanyi J, Csonka C, Puskas LG, Konya C, Ferdinandy P, Csont T. *The effect of a preparation of minerals, vitamins and trace elements on the cardiac gene expression pattern in male diabetic rats.* **CARDIOVASCULAR DIABETOLOGY** 14: Paper 85. 20 p. (2015). doi: 10.1186/s12933-015-0248-6. (Cardiology and Cardiovascular Medicine: Q1, Endocrinology, Diabetes and Metabolism: Q1, IF: 4,534).

16. Sarkozy M, Fekete V, Szucs G, Torok S, Szucs C, Barkanyi J, Varga ZV, Foldesi I, Csonka C, Konya C, Csont T, Ferdinandy P. *Anti-diabetic effect of a preparation of vitamins, minerals and trace elements in diabetic rats: a gender difference*. **BMC ENDOCRINE DISORDERS** 14:(1) Paper 72. 11 p. (2014) doi: 10.1186/1472-6823-14-72. (Endocrinology, Diabetes and Metabolism: Q2, IF: 1.710).

17. Sarkozy M, Zvara A, Gyemant N, Fekete V, Kocsis GF, Pipis J, Sz Cs G, Csonka C, Puskas LG, Ferdinandy P, Csont T. *Metabolic syndrome influences cardiac gene expression pattern at the transcript level in male ZDF rats.* **CARDIOVASCULAR DIABETOLOGY** 12: Paper 16. 17 p. (2013). doi: 10.1186/1475-2840-12-16. (Cardiology and Cardiovascular Medicine: Q1, Endocrinology, Diabetes and Metabolism: Q1, IF: 3.706).

18. Kocsis Gabriella F*, Sarkozy Marta*, Bencsik Peter, Pipicz Marton, Varga Zoltan V, Paloczi Janos, Csonka Csaba, Ferdinandy Peter, Csont Tamas. *Preconditioning protects the heart in a prolonged uremic condition.* **AMERICAN JOURNAL OF PHYSIOLOGY: HEART AND CIRCULATORY PHYSIOLOGY** 303:(10) pp. H1229-H1236. (2012). doi: 10.1152/ajpheart.00379.2012, *Kocsis Gabriella F and Marta Sarkozy equally contributed to this work.* (Physiology: Q1, Cardiology and Cardiovascular Medicine: Q1, Physiology, medical: Q1, IF: 3.629).

II**. Coauthor publications:**

1. Márton Richárd Szabó,Márton Pipicz, Márta Sárközy, Bella Bruszel, Zoltán Szabó, Tamás Csont. Diet-induced hypercholesterolemia leads to cardiac dysfunction and alterations in the myocardial proteome. **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES** 2022, 23(13), 7387; https://doi.org/10.3390/ijms23137387. (Spectroscopy: D1, Medicine, miscellaneous: Q1, IF: 6.208).

2. Tóth, Melinda E; Dukay, Brigitta; Péter, Mária; Balogh, Gábor; Szűcs, Gergő; Zvara, Ágnes ; Szebeni, Gábor J.; Hajdu, Petra; Sárközy, Márta; Puskás, László G. et al. *Male and Female Animals Respond Differently to High-Fat Diet and Regular Exercise Training in a Mouse Model of Hyperlipidemia*. **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES** 2021 Apr 18;22(8):4198. doi: 10.3390/ijms22084198. (Organic chemistry: D1, Medicine, miscellaneous: Q1, IF: 6.208).

3. Gergo Szucs, Andrea Sója, Mária Péter, Márta Sárközy, Bella Bruszel, Andrea Siska, Imre Földesi, Zoltán Szabó, Tamás Janáky, László Vigh, Gábor Balogh, and Tamás Csont. *Prediabetes induced by fructose-enriched diet influences cardiac lipidome and proteome and leads to deterioration of cardiac function prior to the development of*

excessive oxidative stress and cell damage. **OXIDATIVE MEDICINE AND CELLULAR LONGEVITY** 2019 Dec 9;2019:3218275. doi: 10.1155/2019/3218275. eCollection 2019. (Medicine, miscellenaeous: Q1, IF: 4.936)

4. Virág Demján; Tivadar Kiss; Andrea Siska; Márton Richárd Szabó; Márta Sárközy; Imre Földesi; Dezső Csupor; Tamás Csont. *Effect of Stellaria media tea on lipid profile in rats.* **EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE,** 2020 Jan 24;2020:5109328. doi: 10.1155/2020/5109328. (Complementary and Alternative Medicine: Q1, IF: 2.064).

5. Szabó, Márton R; Gáspár, Renáta; Pipicz, Márton; Zsindely, Nóra ; Diószegi, Petra; Sárközy, Márta ; Bodai, László ; Csont, Tamás ✉ Hypercholesterolemia Interferes with Induction of miR-125b-1-3p in Preconditioned Hearts, **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES** 2020 May 26;21(11):3744. doi: 10.3390/ijms21113744. (Medicine, miscellenaeous: Q1, IF:4,556)

6. Márton Pipicz, Virág Demján, Márta Sárközy, Tamás Csont. Alteration of cardiac STAT3 in response to cardiovascular risk factors, comorbidities and comedication. **INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES**. 2018 Nov 12;19(11):3572. doi: 10.3390/ijms19113572. (Medicine, miscellaneous: Q1, IF: 3.687).

7. Heger J, Bornbaum J, Wurfel A, Hill C, Brockmann N, Gaspar R, Paloczi J, Varga ZV, Sarkozy M, Bencsik P, Csont T, Torok S, Kojonazarov B, Schermuly RT, Bongler K, Parahuleva M, Ferdinandy P, Schulz R, Euler G. *JDP2 overexpression provokes cardiac dysfunction in mice*. **SCIENTIFIC REPORTS** 2018 May 16;8(1):7647. doi: 10.1038/s41598-018-26052-w. (2018) (Multidisciplinary: D1, IF: 4.122).

8. Schreckenberg R, Bencsik P, Weber M, Abdallah Y, Csonka C, Gomori K, Kiss K, Paloczi J, Pipis J, Sarkozy M, Ferdinandy P, Schulz R, Schluter KD. Adverse Effects on beta-Adrenergic Receptor Coupling: Ischemic Postconditioning Failed to Preserve Long-Term Cardiac Function. **JOURNAL OF THE AMERICAN HEART ASSOCIATION** 2017 Dec 22;6(12):e006809. doi: 10.1161/JAHA.117.006809. (Cardiology and Cardiovascular Medicine: D1, IF: 4.450).

9. Baranyai T, Giricz Z, Varga ZV, Koncsos G, Lukovic D, Makkos A, Sarkozy M, Pavo N, Jakab A, Czimbalmos C, Vago H, Ruzsa Z, Toth L, Garamvolgyi R, Merkely B, Schulz R, Gyongyosi M, Ferdinandy P. In vivo MRI and ex vivo histological assessment of the cardioprotection induced by ischemic preconditioning, postconditioning and remote conditioning in a closed-chest porcine model of reperfused acute myocardial infarction: importance of microvasculature. **JOURNAL OF TRANSLATIONAL MEDICINE** 2017 Apr 1;15(1):67. doi: 10.1186/s12967-017-1166-z. (Medicine, miscellaneous: Q1, IF: 4.197).

10. Csonka C, Baranyai T, Tiszlavicz L, Fébel H, Szűcs G, Varga ZV, Sárközy M, Puskás LG, Antal O, Siska A, Földesi I, Ferdinandy P, Czakó L, Csont T. Isolated hypercholesterolemia leads to steatosis in the liver without affecting the pancreas. **LIPIDS IN HEALTH AND DISEASE** 2017 Jul 27;16(1):144. doi: 10.1186/s12944-017-0537-z. (Endocrinology, Diabetes and Metabolism: Q2, IF: 2.663).

11. Pavo N, Lukovic D, Zlabinger K, Zimba A, Lorant D, Goliasch G, Winkler J, Pils D, Auer K, Jan Ankersmit H, Giricz Z, Baranyai T, Sarkozy M, Jakab A, Garamvolgyi R, Emmert MY, Hoerstrup SP, Hausenloy DJ, Ferdinandy P, Maurer G, Gyongyosi M. Sequential activation of different pathway networks in ischemia-affected and non-affected myocardium, inducing intrinsic remote conditioning to prevent left ventricular remodeling. **SCIENTIFIC REPORTS** 2017 Mar 7;7:43958. doi: 10.1038/srep43958. (Multidisciplinary: D1, IF: 4.122).

12. Pavo N, Lukovic D, Zlabinger K, Lorant D, Goliasch G, Winkler J, Pils D, Auer K, Ankersmit HJ, Giricz Z, Sarkozy M, Jakab A, Garamvolgyi R, Emmert MY, Hoerstrup SP, Hausenloy DJ, Ferdinandy P, Maurer G, Gyongyosi M. Intrinsic remote conditioning of the myocardium as a comprehensive cardiac response to ischemia and reperfusion. **ONCOTARGET** 2017 Jun 12;8(40):67227-67240. doi: 10.18632/oncotarget.18438. eCollection. (Oncology: Q1, IF: -).

13. Csaba Csonka, Márta Sárközy, Márton Pipicz, László Dux, Tamás Csont. Modulation of Hypercholesterolemia-Induced Oxidative/Nitrative Stress in the Heart. **OXIDATIVE MEDICINE AND CELLULAR LONGEVITY** 2016;2016:3863726. doi: 10.1155/2016/3863726. Epub 2015 Dec 14. (Biochemistry: Q1, IF: 4.593).

14. Gyongyosi M, Giurgea GA, Syeda B, Charwat S, Marzluf B, Mascherbauer J, Jakab A, Zimba A, Sarkozy M, Pavo N, Sochor H, Graf S, Lang I, Maurer G, Bergler-Klein J, MYSTAR investigators. Long-Term Outcome of Combined (Percutaneous Intramyocardial and Intracoronary) Application of Autologous Bone Marrow Mononuclear Cells Post

Myocardial Infarction: The 5-Year MYSTAR Study. **PLOS ONE** 2016 Oct 20;11(10):e0164908. doi: 10.1371/journal.pone.0164908. eCollection 2016. (Medicine, miscellaneous: Q1, IF: 2.806).

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III. Book chapter

1. Márta Sárközy and Tamás Csont. MicroRNA-Based Therapeutic Strategies for Chronic Kidney Disease and Uremic Cardiomyopathy. Elsevier. 2022. Book title: MicroRNA: From Bench to Beside Editor: Prof. Dr. Junjie Xiao, vice dean of School of Medicine, Shanghai University, China