

УНИВЕРЗИТЕТ У КРАГУЈЕВЦУ
ФАКУЛТЕТ МЕДИЦИНСКИХ НАУКА

УНИВЕРЗИТЕТ У КРАГУЈЕВЦУ
ФАКУЛТЕТ МЕДИЦИНСКИХ НАУКА
НАСТАВНО-НАУЧНОМ ВЕЋУ

ПРИМЉЕНО		25. 01. 2024	
Орг. јед.	Број	Датум	Вредност
01	504		

Поштоване колеге,

Обраћамо Вам се са великим задовољством испред катедри за основну и последипломску наставу из Физиологије, као и испред Центра изузетних вредности за испитивање кардиоваскуларних и метаболичких поремећаја, са предлогом за избор у гостујуће (визитинг) професоре нашег Факултета:

1. проф. др **Иштвана Бацка (István Baczkó)**, редовног професора и шефа катедре за Фармакологију и фармакотерапију Медицинског факултета Алберт Сент Ђорђи Универзитета у Сегедину (Мађарска),
2. проф. др **Девендру Агравала (Devendra Agrawal)**, редовног професора и шефа катедре за Транслациона истраживања Факултета остеопатске медицине Пацифика, Западног универзитета здравствених наука у Помони (Калифорнија, САД),
3. проф. др **Данину Мунтеан (Danina Muntean)**, редовног професора и директора центра за Транслациона истраживања и системску медицину Медицинског факултета Виктор Бабеш Универзитета за медицину и фармацију у Темишвару (Румунија),

Наведене професоре обједињују импозантни сциентометријски подаци, како у квалитативном тако и у квантитативном погледу. Овде бисмо само истакли да је сваки од њих аутор десетина књига и поглавља, рецензент и уредник више десетина престижних светских часописа, коаутор у преко 150 радова на SCI/CC листи, ментор великог броја докторских дисертација, аутор више патената и позивни предавач на преко 100 симпозијума.

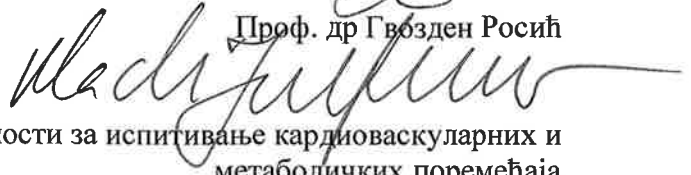
Осим тога, поменути истраживачи на глобалном нивоу припадају ешалону најеминентнијих из области кардиоваскуларне физиологије и патологије, метаболичких поремећаја и физиологије напора, те би избор у гостујуће професоре омогућио чвршће успостављање наставно-научних пројеката, који би, имајући у виду њихов светски познати реноме, немерљиво значио Факултету медицинских наука и Универзитету у Крагујевцу.

У прилогу Вам достављамо њихове биографије и библиографије.

С поштовањем,

Шеф катедре за основну наставу
из Физиологије

Проф. др Гвозден Росић

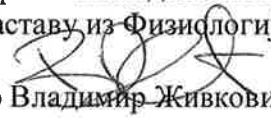


Руководилац Центра изузетних вредности за испитивање кардиоваскуларних и
метаболичких поремећаја

Проф. др Владимир Јаковљевић

Шеф катедре за последипломску
наставу из Физиологије

Проф. др Владимир Живковић



Curriculum vitae

Professor Dr. István Baczkó
Department Head

**Department of Pharmacology and Pharmacotherapy,
Albert Szent-Györgyi Medical School, University of Szeged, Hungary**



Name

Dr. István Róbert Baczkó

Born

Szeged, Hungary; August 15, 1969.

Citizenship

Hungarian

Permanent address

Rózsa u. 23, I. em. 1.; 6723 Szeged, Hungary

University degree

Medical doctor (MD): 1993

Current affiliation

Department Head, full professor, Department of Pharmacology and Pharmacotherapy, Albert Szent-Györgyi Medical School, University of Szeged; 6720 Szeged, Dóm tér 12.
Tel.: +36-62-546-109

E-mail: baczko.istvan@med.u-szeged.hu

Education, scientific degrees

- **Medical doctor (MD)**, 1987-1993.
Albert Szent-Györgyi Medical University, Szeged
- **English-Hungarian medical specialist translator**, 1987-1992.
Albert Szent-Györgyi Medical University, Szeged
- **Clinical pharmacology specialty exam**: 1998.
Semmelweis Medical University, Budapest, Hungary
- **Ph.D.**, 1998., Summa cum laude
medicine; Department of Pharmacology and Pharmacotherapy, Albert Szent-Györgyi Medical University, Szeged. Title of thesis: "ATP-Sensitive Potassium Channel Modulators and Ischaemia-Reperfusion Induced Arrhythmias"; Supervisor: Prof. Dr. István Leprán.

- 2001. Introduction to Clinical Drug Research, Vienna School of Clinical Research, Vienna, Austria
- **Habilitation:** In Multidisciplinary Medical Sciences, University of Szeged, Hungary, 2011.

Study visits abroad

1995 – 1996.

Department of Pharmacology, King's College, London, UK

Supervisor: Dr Michael J. Curtis

2001 – 2005.

Joint projects of the Department of Pharmacology, University of Alberta, Edmonton, Canada and the Department of Physiology and Biophysics, University of Calgary, Calgary, Canada

Supervisors: Dr. Peter E. Light (Edmonton) and Dr. Wayne R. Giles (Calgary)

Main scientific interests:

- Identification of molecular mechanisms involved in electrical and structural myocardial remodeling that accompanies atrial fibrillation, and their roles in the persistence and development of arrhythmia using experimental animal models and collaborative clinical studies
- To investigate the role of ventricular myocardial repolarization reserve impairment in different pathological conditions and to clarify the role of this impairment in increased arrhythmia susceptibility in different pathological conditions. Identification and modulation of potential novel drug targets
- Establishment and characterisation of preclinical animal models for more reliable prediction of severe ventricular arrhythmias, and investigation of the usefulness of different ECG parameters for the prediction of arrhythmias
- Exploring the electrophysiological mechanisms of sudden cardiac death in elite athletes using experimental animal models and collaborative clinical studies. Development of non-invasive electrophysiological methods to screen individuals with increased susceptibility to arrhythmias, identification of novel biomarkers
- The role of electrical and structural remodeling in the development of increased susceptibility to arrhythmias associated with heart failure. Identification of new therapeutic targets
- The role of myocardial K_{ATP} channels in cardioprotection, in the development and prevention of cardiac arrhythmias

Language skills

English middle level state exam, 1986.

English advanced level state exam, 1992.

Russian basic level exam, 1998.

Awards and honours

- Irbesartan Research Award (Bristol Myers Squibb and Sanofi), 1998.
- Young Investigator Award, Hungarian Society for Experimental and Clinical Pharmacology, 2000.
- János Bolyai Research Scholarship Certificate of Recognition for outstanding research work, Hungarian Academy of Sciences, 2003.
- Francis X. Witkowski Publication Award, University of Alberta, Edmonton, Canada, 2004.
- János Bolyai Research Scholarship Certificate of Recognition for outstanding research work, Hungarian Academy of Sciences, 2013.
- György Ivánovics Commemorative Medal for outstanding teaching and research activities. School of Medicine, University of Szeged, Szeged, 2013.
- Outstanding Scientific Student Teacher of the Medical Faculty, 2014. School of Medicine, University of Szeged, Szeged
- Distinguished Service Award in Cardiovascular Science, Medicine and Surgery; by the International Academy of Cardiovascular Sciences, Winnipeg, Canada; 2016.
- International Academy of Cardiovascular Sciences Fellowship Award, Winnipeg, Canada; 2020.
- Norman Alpert Award for Established Investigators in Cardiovascular Sciences; by the International Academy of Cardiovascular Sciences, Banja Luka, Bosnia and Herzegovina; 2021.
- Lifetime Achievement Award in Cardiovascular Science, Medicine and Surgery, by the International Academy of Cardiovascular Sciences, Szeged, Hungary; 2022.
- Dennis B. McNamara Award for Excellence in Cardiovascular Sciences, by the International Academy of Cardiovascular Sciences, Tampa, FL, USA; 2023.

Summary of publication activities

Published, peer-reviewed full papers: 105

Cumulative impact factor of published papers: 587.996

Scimago ranking of papers: 35 D1 (top 10%), further 42 Q1 (top 25%), 10 Q2.

Total citations /independent citations according to Hungarian MTMT database: 3052 / 2240

Hirsch (H) index: 32

G index: 50

In addition, published conference abstracts: 197; book chapters: 9. Author of 18 medical textbook chapters, notes, teaching aid materials

ORCID ID: 0000-0002-9588-0797

MTMT database link on publications:

<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=authors10001718&paging=1;1000>

Selected papers

1. Varró A, Tomek J, Nagy N, Virág L, Passini E, Rodriguez B, **Baczkó I**. Cardiac transmembrane ion channels and action potentials: cellular physiology and arrhythmogenic behavior. *Physiological Reviews*, 2021, 101(3): 1083-1176. PMID: 33118864
IF (2021) = 46.5; D1/Q1 (Physiology - 1/189)
2. Ferdinandy P, **Baczkó I**, Bencsik P, Giricz Z, Görbe A, Pacher P, Varga ZV, Varró A, Schulz R. Definition of hidden drug cardiotoxicity: paradigm change in cardiac safety testing and its clinical implications. *European Heart Journal* 2019, 40: 1771-1777; PMID: 29982507
IF (2019) = 22.673; D1/Q1 (Cardiology and Cardiovascular Medicine - 3/358)
3. Major P*, **Baczkó I***, Hiripi L, Odening KE, Juhász V, Kohajda Zs, Horváth A, Prorok J, Seprényi Gy, Kovács M, Ördög B, Doleschall Z, Nattel S, Varró A, Bösze Zs. A novel transgenic rabbit model with reduced repolarization reserve: long QT syndrome caused by a dominant-negative mutation of KCNE1 gene. *British Journal of Pharmacology* 2016, 173(12): 2046-2061.; PMID: 27076034
IF (2016) = 5.491; D1/Q1 (Pharmacology - 14/326)
4. Schmidt C, Wiedmann F, Voigt N, Zhou XB, Kallenberger S, Ruhparwar A, Karck M, Biliczki P, Ehrlich J, **Baczkó I**, Donner BC, Schweizer PA, Katus HA, Dobrev D, Thomas D. Upregulation of K_{2P3.1} (TASK-1) K⁺ current causes action potential shortening in patients with chronic atrial fibrillation. *Circulation* 2015, 132(2): 82-92.; PMID: 25951834
IF (2015) = 17.047; D1/Q1 (Cardiology and Cardiovascular Medicine - 2/344)
5. **Baczkó I**, Liknes D, Yang W, Hamming KC, Searle G, Jaeger K, Husti Z, Juhász V, Klausz G, Pap R, Sággy L, Varró A, Dolinsky V, Wang S, Rauniyar V, Hall D, Dyck JR, Light PE. Characterization of a novel multi-functional resveratrol derivative for the treatment of atrial fibrillation. *British Journal of Pharmacology* 2014, 171(1): 92-106; PMID: 2410218
IF (2014) = 4.842; D1/Q1 (Pharmacology - 23/340)
6. Varró A, **Baczkó I**. Cardiac ventricular repolarization reserve: a principle for understanding drug-related proarrhythmic risk. *British Journal of Pharmacology* 2011, 164(1): 14-36.; PMID: 21545574
IF (2011) = 4.409; D1/Q1 (Pharmacology - 31/360)
7. Lengyel Cs, Varró A, Tábori K, Papp JGy, **Baczkó I**. Combined pharmacological block of I_{Kr} and I_{Ks} increases short-term QT interval variability and provokes torsades de pointes *British Journal of Pharmacology* 2007, 151: 941-951.; PMID: 17533421

IF (2007) = 3.767; Q1 (Pharmacology - 33/312)

8. **Baczkó I**, Jones L, McGuigan CF, Manning Fox JE, Gandhi M, Giles WR, Clanachan AS, Light PE.

Plasma-membrane K_{ATP} channel-mediated cardioprotection involves post-hypoxic reductions in calcium overload and contractile dysfunction: mechanistic insights into cardioplegia. *FASEB Journal* 2005, 19: 980-982.; PMID: 15774423

IF (2005) = 7.064; D1/Q1 (Medicine [miscellaneous] - 30/2877)

9. **Baczkó I**, Giles WR, Light PE.

Pharmacological activation of plasma-membrane K_{ATP} channels reduces reoxygenation-induced Ca^{2+} overload in cardiac myocytes via modulation of the diastolic membrane potential.

British Journal of Pharmacology 2004, 141: 1059-1067.; PMID: 14993099

IF (2004) = 3.325; Q1 (Pharmacology - 35/302)

10. **Baczkó I**, Giles WR, Light PE.

Resting membrane potential regulates Na^+/Ca^{2+} exchange-mediated Ca^{2+} overload during hypoxia/reoxygenation in rat ventricular myocytes.

Journal of Physiology (London), 2003, 550: 889-898.; PMID: 12807988

IF (2003) = 4.352; D1/Q1 (Physiology - 11/168)

University public activities

- Student Credit Transfer Committee member, Albert Szent-Györgyi Medical School, University of Szeged, 2010-2014; 2018–2020.
- Educational Committee member, Albert Szent-Györgyi Medical School, University of Szeged; 2014-2018; 2018 – currently
- Workplace Animal Welfare Committee member, Albert Szent-Györgyi Medical School, University of Szeged; 2016. - currently
- International Relations Committee member, Albert Szent-Györgyi Medical School, University of Szeged; 2018 – currently
- Workplace Animal Welfare Committee member, Albert Szent-Györgyi Medical School, University of Szeged; 2016. - currently
- Theoretical Departments Committee member, Albert Szent-Györgyi Medical School, University of Szeged; 2019. - currently

National scientific society memberships, positions

Hungarian Society of Cardiology, member of Presidium; 2022 - currently

Hungarian Society of Cardiology Translational Cardiovascular Research Working Group leader; 2022 – 2025.

Hungarian Society of Cardiology Translational Cardiovascular Research Working Group Presidium member; 2022-2025

Hungarian Society of Cardiology Translational Cardiovascular Research Working Group deputy

leader; 2019-2022.

Hungarian Society of Cardiology Experimental Section Working Group member of Presidium; 2013-2016; 2016-2019.

Hungarian Society for Experimental and Clinical Pharmacology member of executive board; 2014 - currently

Hungarian Society for Experimental and Clinical Pharmacology, Experimental Section secretary; 2018 - currently

Hungarian Society for Experimental and Clinical Pharmacology member; 1994 - currently

Hungarian Physiological Society member; 1994 - currently

Hungarian Society of Cardiology member; 1994 - currently

International scientific society memberships, positions

MyoNaK Society, Executive Board member; 2012-2017.

European Society for Cardiology - European Working Group on Cardiac Cellular Electrophysiology (EWGCCE) member; 2015 - currently

International Society for Heart Research (ISHR) member; 1994 - currently

International Union of Basic and Clinical Pharmacology (IUPHAR) member; 2012 - currently

International Academy of Cardiovascular Sciences (IACS) member; 2013 - currently

International Academy of Cardiovascular Sciences European Section (IACS-ES) secretary general; 2014 - currently

Organizer of 12 national or international meetings.

More than 30 invited talks at international conferences; on more than 25 occasions invited scientific session chair at international meetings.

Principal investigator, consortium member leader in 11 significant national or international scientific projects, including EU Horizon 2020, FP7 and FP6 programs and senior participant in 14 such grants.

Scientific Scholarships

British Council Scholarship; 1995.

János Bolyai Research Scholarship, Hungarian Academy of Sciences; 1999-2001.

János Bolyai Research Scholarship, Hungarian Academy of Sciences; 2009-2012.

New Central Europe Excellent Researcher Scholarship for Hungarian and international researchers in convergence regions; 2014-2015.

Patents

1. Mátyus P, Polonkáné Bálint Á, Krajsovsky G, Balogh B, Czompa A, Deme R, Varró A, Virág L, **Baczkó I**, Jost N, Tálosi L, Orvos P, Bánsághi Sz, Szerémy P, Tóth-Molnár E: Gyógyszerkészítmény pitvarfibrilláció kezelésére (Medication for the treatment of atrial fibrillation)

Number: P1300389

Filing year: 2013

2. Varró A, Mátyus P, **Baczkó I**, Falkay Gy, Jost N, Leprán I, Sztojkov-Ivanov A, Virág L, Buzás N: Desethylamidarone compositions.

Lajstromszám: WO2013186746 A1

Filing year: 2013.

Number: PCT/IB2013/054871

3. **Baczkó I**, Bősze Zs, Jost N, Major P, Hiripi L, Varró A, Virág L: A KCNE1 gén domináns recesszív mutációja által okozott hosszú QT szindróma transzgenikus nyúl modellje (A transgenic rabbit model of long QT syndrome caused by a dominant recessive mutation in the KCNE1 gene)

Number: P 13 00 705 A1

Filing year: 2013

4. Acsai K, **Baczkó I**, Fülöp F, Jost N, Leprán I, Márton Z, Nagy N, Prorok J, Szakonyi Zs, Tóth A, Varró A, Virág L: Carbocyclic nucleoside analogues as novel selective sodium/calcium exchange inhibitors

Filing year: 2016

Number: P16000342

Regular PhD thesis opponent, PhD thesis defense committee member at the University of Szeged, Semmelweis University Budapest, University of Debrecen, Hungary.

Editorial Board member at the following scientific journals

1. International Journal of Molecular Sciences (Switzerland), thematic editor, 2020-currently
2. Journal of Cardiovascular Pharmacology and Therapeutics (UK), 2007- currently
3. BMC Pharmacology and Toxicology (UK), 2012- currently
4. Molecular and Cellular Biochemistry (USA), 2015- currently
5. Canadian Journal of Physiology and Pharmacology (Canada), Q2, guest associate editor, December 2014; February 2017

Invited reviewer regularly at the following scientific journals

1. British Journal of Pharmacology (D1)
2. Cardiovascular Research (D1)
3. Journal of Molecular and Cellular Cardiology (Q1)
4. Journal of Applied Physiology (Q1)
5. Life Sciences (Q1)
6. Acta Physiologica (Q1)

7. Antioxidants and Redox Signaling (Q1)
8. Progress in Biophysics and Molecular Biology (Q1)
9. Therapeutic Advances in Drug Safety (Q1)
10. Frontiers in Pharmacology (Q1)
11. Expert Opinion in Drug Safety (Q1)
12. PLoS ONE (Q1)
13. EUROPACE (Q1)
14. European Society for Cardiology Heart Failure (Q1)
15. Current Medicinal Chemistry (Q1)
16. Journal of Trace Elements in Medicine and Biology (Q1)
17. Journal of Cardiovascular Development and Disease (Q1)
18. Basic and Clinical Pharmacology and Toxicology (Q2)
19. Journal of Cardiovascular Pharmacology and Therapeutics (Q2)
20. Experimental Physiology (Q2)
21. BMC Pharmacology and Toxicology (Q2)
22. Canadian Journal of Physiology and Pharmacology (Q2)
23. Molecular and Cellular Biochemistry (Q2)
24. Biochemical Genetics (Q2)
25. Naunyn-Schmiedeberg's Archives of Pharmacology (Q2)
26. International Journal of Cardiology – Heart & Vasculature
27. Expert Reviews in Clinical Pharmacology
28. Naunyn-Schmiedeberg's Archives of Pharmacology (Q2)
29. Scandinavian Cardiovascular Journal (Q3)

CURRICULUM VITAE (as of January 22, 2024)

Full name Devendra Kumar Agrawal

Present Academic Rank *Professor and Director*

Office Address *Department of Translational Research*
Western University of Health Sciences
309 East Second Street
Pomona, California 91766-1854, USA
Tel : (909) 469-7040
Cell : (402) 690-3667
E-mail: DAgrawal@WesternU.edu

Citizenship United States of America

EDUCATION

2003 - 2005 **M.S. (Information Technology and Management)**
Creighton University, Omaha, NE
College of Business

2002 -2004 **M.B.A. (Business Administration)**
Creighton University, Omaha, NE
College of Business

1984 - 1985 **Postdoctoral Fellow (Pharmacology)**
University of British Columbia
Faculty of Pharmaceutical Sciences
Vancouver, Canada
Mentor: John H. McNeill, Ph.D.

1982 - 1984 **Postdoctoral Fellow (Physiology and Pharmacology)**
McMaster University
Faculty of Health Sciences
Hamilton, Ontario, Canada
Mentor: Edwin E. Daniel, Ph.D.

1980 - 1984 **Ph. D. (Medical Sciences)**
McMaster University
Department of Neurosciences
Hamilton, Ontario, Canada
Mentor/Major Advisor: Edwin E. Daniel, Ph.D.

1973 - 1978 **Ph.D. (Biochemistry)**
King George's Medical College
Lucknow University
Postgraduate Department of Pathology & Bacteriology

Lucknow, U.P., India

Mentors/Major Advisors: Professor Abhaya Kumar, D. Phil. and
Professor R. M. L. Mehrotra, MBBS, MD, FRCPath

1971 - 1973

**Master of Science (Chemistry) with specialization in
Organic Chemistry**

Lucknow University
Department of Chemistry
Lucknow, U.P., India

1969 - 1971

B. Sc. (Major in Biology and Chemistry)

Lucknow Christian College
Lucknow University
Lucknow, U.P., India

APPOINTMENTS

- 07/2019 - Present Professor and Director, Department of Translational Research, College of Osteopathic Medicine of the Pacific, Western University of Health Sciences, Pomona, California, USA
- 07/2019 - 02/2022 Senior Vice President for Research & Biotechnology, Western University of Health Sciences, Pomona, California, USA
- 01/2016 - 06/2019 Professor and Chairman, Department of Clinical & Translational Science, Creighton University School of Medicine, Omaha, NE
- 09/2009 - 06/2019 Director, Graduate Programs (MS and PhD)
Clinical & Translational Science
Creighton University Graduate School, Omaha, NE
- 07/2012 - 06/2017 Senior Associate Dean for Clinical & Translational Research
Creighton University School of Medicine, Omaha, NE
- 04/2009 - 06/2012 Associate Dean for Translational Research
Creighton University School of Medicine, Omaha, NE
- 04/2009 - 12/2015 Director
Center for Clinical and Translational Science
Creighton University School of Medicine, Omaha, NE
- 07/2004 - 12/2016 Professor
Department of Biomedical Sciences (primary)
Creighton University School of Medicine, Omaha, NE
- 07/2004 - 06/2019 Professor
Department of Internal Medicine (secondary)
Department of Medical Microbiology & Immunology (secondary)

Creighton University School of Medicine, Omaha, NE

- 01/1998 – 06/2004 Professor
Department of Biomedical Sciences (secondary)
Creighton University School of Medicine, Omaha, NE
- 07/1997 – 06/2004 Professor
Department of Internal Medicine (primary)
Department of Medical Microbiology & Immunology (secondary)
Creighton University School of Medicine, Omaha, NE
- 07/1990 – 06/1997 Associate Professor (**Tenure granted effective July 1990**)
Department of Internal Medicine (primary)
Creighton University School of Medicine, Omaha, NE
- 07/1995 – 06/1997 Associate Professor
Department of Medical Microbiology & Immunology (secondary)
Creighton University School of Medicine, Omaha, NE
- 07/1990 – 06/1995 Associate Professor
Department of Pharmacology (secondary)
Creighton University School of Medicine, Omaha, NE
- 07/1990 – 06/1995 Associate Professor
Department of Biomedical Sciences (secondary)
Creighton University School of Medicine, Omaha, NE
- 07/1990 -06/2002 Director, Multidisciplinary Cardiovascular Research Group (formerly
Creighton Vascular Center), Creighton University Medical
Center, Omaha, NE
- 10/1985 – 06/1990 Assistant Professor
Department of Internal Medicine (primary)
Department of Pharmacology (secondary)
Creighton University School of Medicine, Omaha, NE
- 10/1985 – 06/2003 Director of Pre-Clinical Research, Center for Allergy, Asthma and
Immunology, Creighton University School of Medicine, Omaha, NE
- 09/1980 – 06/1982 Teaching Assistant (a resource person to M.D. students in
Pharmacology), Faculty of Health Sciences
McMaster University Medical Center
Hamilton, Ontario, Canada
Supervisor: Edwin E. Daniel, Ph.D.
- 10/1978 – 08/1980 Clinical Biochemist
King George's Medical College (Now King George's Medical
University)

Gandhi Memorial & Associated Hospitals
Lucknow, U.P., India

08/1973 – 08/1978 Research Assistant
Postgraduate Department of Pathology and Bacteriology
King George's Medical College, Lucknow, U.P. India
Supervisors: Professor Abhaya Kumar and Professor RML Mehrotra

HONORS and FELLOWSHIPS

02/2016	Alpha Omega Alpha Honor Medical Society
Since 09/2014	Fellow, International Academy of Cardiovascular Sciences
Since 04/2013	Fellow, American Physiological Society
07/2009-06/2019	The Peekie Nash Carpenter Endowed Chair in Medicine
Since 10/2001	Fellow, American Heart Association
Since 10/2001	Fellow, Council of Arteriosclerosis, Thrombosis and Vascular Biology
Since 03/2001	Fellow, American Academy of Allergy, Asthma, and Immunology

AWARDS, PRIZES, and RECOGNITIONS

10/2023	Selected for the Jan Slezak Award for Excellence in Cardiovascular Sciences , to be awarded at the 9 th Meeting of International Academy of Cardiovascular Sciences - European Section, October 4-7, 2023, in Timișoara, Romania .
09/2023	USF Health Morsani College of Medicine, Tampa, FL – Special Recognition for unwavering mentorship to the scientific committee of the IACS-NAS annual meeting 2023.
05/2017	Robert F. Kennedy Memorial Award for Teaching Achievement – the Highest Teaching honor at Creighton University; Presented at the annual commencement ceremony on 13 th May 2017
03/2017	Special Recognition Award for Outstanding contribution as a Teaching Professor, Researcher, and Mentor by Nebraska and Iowa Physicians of India (NIPI); 11 th March 2017
10/2016	Professor Ricardo Gelpi Award for Excellence in Cardiovascular Sciences , presented at the annual meeting of the International Academy of Cardiovascular Sciences –South America section, Belo Horizonte, Brazil, 21-23 October 2016.

- 10/2015 **Professor Bohuslav Ostadal Award for Excellence in Cardiovascular Sciences**, presented at the annual meeting of the International Academy of Cardiovascular Sciences –European section, Belgrade, Serbia, 8-10 October 2015.
- 09/2015 **Distinguished Leadership Award**, International Academy of Cardiovascular Sciences, Winnipeg, Canada; 12 September 2015
- 05/2015 **Distinguished Service Award**, School of Medicine, Creighton University
- 03/2015 **Harpar S. Buttar Oration Award in Cardiovascular Sciences**, International Academy of Cardiovascular Sciences – India section; March 10, 2015, New Delhi, India
- 02/2015 **Keynote speaker** at the 46th Midwest Student Biomedical Research Forum, Omaha, NE; 28 February 2015
- 06/2013 **Best poster presentation award** at the 81st annual meeting of the European Atherosclerosis Society, Lyon, France 2-6 June 2013
- 01/2013 **Award of Excellence by the India Association of Nebraska** in appreciation of outstanding service and contribution to Nebraska Community at large
- 02/2012 **Creighton University Distinguished Faculty Service Award** presented by the President of Creighton University
- 05/2011 **Distinguished Professor Award by the Faculty of School of Medicine**, Creighton University
- 02/2011 **University Research Award**, Creighton University, presented by the President of Creighton University
- 05/2010 **Outstanding Mentor Award by the Faculty**, Creighton University School of Medicine
- 2010-2019 **The Peekie Nash Carpenter Endowed Chair in Medicine**, Creighton University
- 04/2008 **Distinguished Faculty Award**, presented by the Health Sciences Multicultural & Community Affairs (HS-MACA), Creighton University Medical Center
- 04/2006 One of the three nominees for the **Golden Apple Award for Excellence in Teaching** by Medical Students of Creighton University School of Medicine, Omaha, NE
- 10/2001 **Recognition** by the Midwest Chapter of American Association of Physicians of India for the contribution as a **teaching professor, researcher, and mentor**
- 10/2000 **“Man of the Year” Award**, presented by the India Association of Nebraska, USA for the outstanding services to the community at-large in the State of Nebraska

- 05/1998 Creighton University "Distinguished Research Career Award" presented by the Faculty, Creighton University School of Medicine.
- 03/1994 **Premier Allergy Research Award**, American Academy of Allergy and Immunology, Milwaukee, WI.
- 05/1990 School of Medicine "Young Investigator Award" presented by the Faculty, Creighton University School of Medicine.
- 10/1987 **Morris F. Miller Faculty Development Award** granted by the Health Future Foundation.
- 10/1986 **James M. Keck Faculty Development Award** granted by the Health Future Foundation.
- 10/1986 **American Diabetes Association Travel Award** to attend the University of Virginia/ American Diabetes Association International conference on research and therapeutic issues in diabetes in Charlottesville, Virginia, USA.
- 10/1983 **Dr. Robert F. Furchgott Travel Award** to attend and present a paper at the American Society for Pharmacology and Experimental Therapeutics meeting in Indianapolis, USA.

GRANT SUPPORT

ACTIVE SUPPORT:

1. R01 HL144125-01 (NIH-NHLBI)
Principal Investigator: Devendra K. Agrawal
 Title: Novel Approach to Stabilize Atherosclerotic Plaque in Carotid Artery
 Dates of entire project: 06/01/2018– 04/30/2024
 Total amount Awarded: \$2,863,992
2. 1R01 HL147662-01 (NIH-NHLBI)
Principal Investigator: Devendra K. Agrawal
 Title: Novel Molecular Target to Prevent Maturation Failure of Arteriovenous Fistula
 Dates of entire project: 08/01/2019– 07/31/2024
 Total amount Awarded: \$2,819,916

GRANTS SUBMITTED/PENDING REVIEW

1. 1R25 AI179582-01 (NIH-NIAID)
Principal Investigator: Devendra K. Agrawal
 Title: Research Education Program to Promote Diversity in Immunologic and Allergic Diseases
 Dates of entire project: 12/01/2023– 11/30/2028

Requested Total amount: \$1,895,400

2. 1R25 AI83315-01 (NIH-NIAID)

Principal Investigator: Devendra K. Agrawal

Title: Research Education Program for Medical Students in Allergic and Immunologic Diseases

Dates of entire project: 06/01/2024- 05/31/2029

Requested Total amount: \$1,895,400

3. 1R15 HL (NIH-NHLBI)

Principal Investigator: Finosh G. Thankam

Co-Investigator: Devendra K. Agrawal

Title: Regenerative Left Ventricular Stromal Cells for the Accelerated Healing of the Infarct Zone

Dates of entire project: 04/01/2024- 03/31/2027

Requested Total amount: \$428,928

4. Department of Defense Application submitted on May 31, 2023

Principal Investigator: Vikrant Rai

Co-Investigator: Devendra K. Agrawal

Title: Targeting the Novel Molecular Targets to Attenuate Plaque Vulnerability in Carotid Artery

Dates of entire project: 10/01/2024- 09/30/2028

Requested Total amount: \$2,249,593

PAST FUNDING

1. R01 HL128063-01 (NIH-NHLBI)

Principal Investigator: Devendra K. Agrawal

Title: Gene and Stem Cell Therapy in Coronary Artery Bypass Graft

Dates and total award of entire project: 03/13/2015- 02/28/2020 \$2,903,260

2. R01HL144125-01S1 (NIH-NHLBI)- Diversity Supplement (*a Graduate Research Supplement to support Mr. Kouassi Tata Kouassi, a PhD student*)

Principal Investigator: Devendra K. Agrawal

Title: Novel Approach to stabilize Atherosclerotic Plaque in Carotid Artery

Dates and total award of entire project: 12/26/2018- 06/30/2019 \$138,308

3. Dialysis Clinic Inc.

Principal Investigator: Devendra K. Agrawal

Title: Gene Therapy to Induce Maturity of Arteriovenous Fistula in Swine Model

Dates of entire project: 07/01/2018- 06/30/2019; Total Award: \$249,300

4. State of Nebraska, Department of Health and Human Services

Principal Investigator: Devendra K. Agrawal

Title: Collagen Phenotype and Inflammation in Shoulder Tendon Tissue in Current Smokers

Dates of entire project: 07/01/2018- 06/30/2019; Total Award: \$50,000

5. **Principal Investigator: Devendra K. Agrawal**

Title: Epicardial Adipose Tissue, Obesity, and Inflammation in Atherosclerosis

Dates and total award of entire project: 07/23/2013- 05/30/2018 \$3,516,675

6. R01HL116042 (NIH-NHLBI)

- Principal Investigator: Devendra K. Agrawal**
 Title: Vitamin D and Immunomodulation in Coronary Artery Disease
 Dates and Total award of entire project: 07/16/2012- 04/30/2018 \$3,121,285
7. R01 HL112597 (NIH-NHLBI);
Principal Investigator: Devendra K. Agrawal
 Title: "Mesenchymal Stem Cells in the Prevention of Thrombosis and Neointimal Hyperplasia"
 Dates and Total award for entire project: 12/01/2011 - 11/30/2017 \$3,295,563
8. R01HL104516 (NIH-NHLBI)
Principal Investigator: Devendra K. Agrawal
 Title: Gene Therapy with SOCS3 in Intimal Hyperplasia and In-stent Restenosis
 Dates and total award of entire project: 04/01/2011 - 02/28/2017 \$2,577,718
9. ICW Technology, Omaha, NE, USA
Principal Investigator: Devendra K. Agrawal
 Title: "Magnesium binding modifiers in the therapy of hypertension and type II diabetes mellitus"
 Dates and Total award for entire project: 01/15/2014 - 02/28/2017 \$78,400
10. 3R01 HL112597-01S1 (NIH-NHLBI Diversity Supplement)
Principal Investigator: Devendra K. Agrawal; (*Postdoctoral Fellow Supplement to support Kokourvi Paul Djossou, MD*);
 Title: "Mesenchymal Stem Cells in the Prevention of Thrombosis and Neointimal Hyperplasia"
 Dates and Total award for entire project: 04/06/2013 - 11/30/2016 \$298,947
11. 3R01 HL112597-01S1 (NIH-NHLBI Diversity Supplement)
Principal Investigator: Devendra K. Agrawal (*a Graduate Research Supplement to support Mr. Yovani Llamas, a PhD student*);
 Title: "Mesenchymal Stem Cells in the Prevention of Thrombosis and Neointimal Hyperplasia"
 Dates and Total award for entire project: 2/06/2012 - 11/30/2016 \$223,132
12. 3R01 HL120659-01S1 (NIH-NHLBI Diversity Supplement)
Principal Investigator: Devendra K. Agrawal
 (*Graduate Student Supplement to support Kouassi Tata Kouassi, MD*)
 Title: "Epicardial Adipose Tissue, Obesity and Inflammation in Atherosclerosis"
 Dates and Total award for entire project: 01/01/2014 - 12/31/2016 \$113,472
13. 3R01HL116042-S1 (Supplement) NIH-Office of Dietary Supplement-NIH Director's office
Principal Investigator: Devendra K. Agrawal
 Title: Vitamin D and Immunomodulation in Coronary Artery Disease
 Dates and Total award of entire project: 06/01/2014- 04/30/2016 \$140,000
14. 2R01HL073349-09 (NIH-NHLBI)
Principal Investigator: Devendra K. Agrawal
 Title: Apoptosis of Smooth Muscle cells in Carotid Plaques
 Dates and total award of the entire project: 01/01/2010 - 11/30/2015 \$1,300,500
15. 1R01HL090580 (NIH-NHLBI)
Principal Investigator: Devendra K. Agrawal
 Title: Smooth Muscle Cell Proliferation in Human Coronary Artery Bypass Conduits
 Dates and total cost of the entire project: 01/01/2009 - 12/31/2014 \$1,445,000
16. 1R01AI075315 (NIH-NIAID)
Principal Investigator: Devendra K. Agrawal



Personal information

First name(s) / Surname(s)

Danina-Mirela MUNTEAN

Address(es)

Department of Functional Sciences – Pathophysiology, Faculty of Medicine
"Victor Babeș" University of Medicine and Pharmacy of Timișoara, Romania
Eftimie Murgu Sq., no. 2, Timișoara 300041, RO

Tel.

+40 256 493085

E-mail

daninamuntean@umft.ro, munteandanina@gmail.com

Nationality

Romanian

Occupational field

Work experience

Dates

February 2014 – to date

Occupation or position held

Director of the Centre for Translational Research & Systems Medicine, Faculty of Medicine
"Victor Babeș" University of Medicine and Pharmacy of Timișoara, Romania

Main activities and responsibilities

Coordination of research activity

Dates

October 2009 – December 2019

Occupation or position held

Chair of Pathophysiology - Department of Functional Sciences, Faculty of Medicine
"Victor Babeș" University of Medicine and Pharmacy of Timișoara, Romania

Main activities and responsibilities

Coordination of teaching and research activity

Dates

October 2008 – to date

Occupation or position held

PhD Coordinator, Department of Functional Sciences - Pathophysiology, Faculty of Medicine

Main activities and responsibilities

Coordination of research activity (21 PhD theses finalized, 12 with *Summa cum laude* distinction)

Type of business or sector

Education/Health/Medicine

Dates

October 2007 – to date

Occupation or position held

Professor of Pathophysiology, Department of Functional Sciences, Faculty of Medicine

Main activities and responsibilities

Teaching & Research activities

Name and address of employer

"Victor Babeș" University of Medicine and Pharmacy of Timișoara, Romania

Type of business or sector

Education

Dates

1991 – 2007

Occupation or position held

**Associate Professor (2004-2007), Lecturer (1997-2004), Assistant Professor (1993-1997),
Teaching Assistant (1991-1993) – Chair of Pathophysiology, Faculty of Medicine**

Main activities and responsibilities

Teaching and Research activities

Name and address of employer

"Victor Babeș" University of Medicine and Pharmacy of Timișoara, Romania

Type of business or sector

Education

Dates

June 2000 – to date

Occupation or position held

Senior Consultant in Internal Medicine

Dates	1989-2000
Occupation or position held	Internship (1989-1990), Residency in Internal Medicine (1991-1994), Consultant in Internal Medicine (1994-2000)
Main activities and responsibilities	Clinical activity
Name and address of employer	County Hospital and private Policlinic of Timișoara, Romania
Type of business or sector	Health
Education and training	
Date	December 2017
Title of qualification awarded	Diploma of Habilitation in Medicine (Dr. Hab.) Title of thesis: <i>"Mitochondria As Therapeutic Target In Translational Research And Drug Repurposing"</i>
Dates	October 1997 – July 2002
Title of qualification awarded	Diploma of Doctor of Philosophy in Medicine (PhD)
Principal subject	Title of thesis: <i>"Myocardial Ischemic Preconditioning and Cardioprotection Against Ischemia/Reperfusion-Induced Arrhythmias"</i>
Name and type of organisation	"Victor Babeș" University of Medicine and Pharmacy of Timișoara, Romania
Dates	October 1996 – September 2001
Title of qualification awarded	Diploma of Pharmacist (Pharm)
Principal subjects/occupational skills	Pharmacy / Principal Pharmacist
Name and type of organisation providing education and training	"Victor Babeș" University of Medicine and Pharmacy of Timișoara, Romania Faculty of Pharmacy
Dates	October 1983 – November 1989
Title of qualification awarded	Emeritus Diploma of Medical Doctor (Final Grade 10)
Principal subjects/occupational skills covered	Medicine / Medical Doctor (MD)
Name and type of organisation providing education and training	Institute of Medicine, Timișoara Faculty of General Medicine
Personal skills	
Mother tongue	Romanian
Other languages	
Self-assessment	
European level (*)	
English	
French	
Professional skills	A. TEACHING ACTIVITY: 1. Lectures and labs of Pathophysiology - first-author/co-author of > 25 Pathophysiology books (manuals/practical guides) in RO, EN, FR languages 2. Lectures within the Doctoral School of the university - optional course <i>"Experimental Models in Translational Research"</i> (2016 - 2022); compulsory course <i>"Experimental Models in Research"</i> (2022-2023) 3. Lectures within a Master program at the Faculty of Pharmacy - compulsory course <i>"OTC drugs, dietary supplements and cosmetics"</i> (2015 - 2019) 4. Coordination of postgraduate courses (since 2006 - to date) - selection: <i>"Updates in Laboratory and Exploratory Diagnostic: From Biomarkers To Algorithms"</i> (2-12.02.2022), <i>"Advances in the Pathophysiology, Diagnostic Markers and Cardiovascular Risk Assessment in</i>

(*) Common European Framework of Reference for Languages

Diabetes Mellitus and Chronic Kidney Disease" (18-27.03.2021), "Vascular and Mitochondrial Dysfunction in Chronic Pathology and Senescence: Pathomechanisms, Diagnostic and Therapeutic Perspectives" (26.03 - 4.04.2020), "Cardiometabolic Diseases and Carcinogenesis - Novel Insights in Pathogenesis, Laboratory Diagnostic and Pharmacotherapy" (4-13.04.2019), "Novel Insights Into the Diagnostic of the Elderly Diseases" (22.02 - 4.03.2018), "The Diagnostic and Prognostic Role of Biomarkers in Cardio-Metabolic, Renal and Rheumatic Diseases" (30.03-8.04.2017, 17-28.03.2016, 2-10.04.2015)

5. Participation in international academic exchanges:

Erasmus teaching mobility within the *Joint Program for European Medical Studies (JPEMS)* at the Faculty of Medicine, University of Angers, France (27.10 - 3.11.2011) and at the Faculty of Medicine, University of Nantes, France (18.10. - 24.10. 2012).

B. RESEARCH ACTIVITY: coordination, management & evaluation of research projects, organization of scientific meetings

Scientific Data:

h Index: 21 (WOS); 23 (Scopus); 27 (Google Scholar)

Publications in journals with IF: > 60 papers (as main author) and > 30 papers (as co-author) in the past 10 years

Cumulative IF as main author > 125

ORCID: 0000-0001-6186-5321

<http://www.researcherid.com/rid/G-3138-2016>

I. Director of the Centre for Translational Research & Systems Medicine (2014 - to date) - founded it in 2014 & ranked as Center for Advanced Research of the university since 2020:

Main achievements:

- foundation of the Laboratory for Cellular Biology and Experimental Electrophysiology (2013)
- foundation of the Laboratory for Confocal Microscopy (2012)
- upgrade of the Laboratory for *In Vitro* and *In Vivo* Experimental Studies (2010)
- foundation of the Laboratory for Mitochondria Studies (2008)

Research domains:

- ✓ Mitochondrial dysfunction in cardiometabolic disease, ageing and carcinogenesis: from pathomechanisms to novel therapeutic targets
- ✓ Endothelial dysfunction: etiopathogenesis and novel therapeutic approaches
- ✓ Assessment and mitigation of monoamine oxidase (MAO)-related oxidative stress in pathology
- ✓ Strategies of cardiovascular, metabolic and renal protection in animal models and in humans: translational studies addressing the central role of mitochondria
- ✓ Evaluation of the effects of phytochemical compounds on mitochondria

International cooperation in the research activity with:

Prof. Eskil Elmér, Director of the Mitochondrial Medicine Research Unit, Lund University, Sweden; Prof. Denis Angoulvant, Head of Cardiology department at Tours University Hospital, Hôpital Trousseau, Deputy Director of INSERM Research Unit EA4245, Tours, Vice-Dean with Medical Pedagogy at the Faculty of Medicine, University of Tours, France; Prof. Mariana Rosca, Chair of Foundational Sciences Discipline at Central Michigan University College of Medicine, USA; Prof. René Csuk, Director of the Department of Organic Chemistry, Martin Luther University Halle-Wittenberg, Halle, Germany; Prof. Istvan Baczko, Director of Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged, Hungary; Prof. Peter Ferdinandy, Director of the Department of Pharmacology and Pharmacotherapy of the Faculty of Medicine, Vice-Rector for Scientific Research at Semmelweis University, Budapest, Hungary; Prof. Ralf P. Brandes, Director of the Institute of Cardiovascular Physiology, Goethe University, Frankfurt, Germany; Prof. Bernhard Brüne, Director of the Institute of Biochemistry I - Pathobiochemistry of the Faculty of Medicine, Goethe University, Frankfurt, Germany.

Organizational / Management skills

II. Participation in International/National Research Projects & Grants (31):

A. INTERNATIONAL PROJECTS (11):

Project coordinator (2):

1. Hungary-Romania Cross-Border Co-operation (CBC) Programme 2007-2013 "Twinning Project for the Development of the Research Infrastructure – HURO-TWIN", project no. 1101/082/2.2.1, 2013-2015
2. Romanian-Hungarian Bilateral Cooperation "Implementation of a Regional Training Network in Experimental Cardiology – CARDIO-REG", Category: Romanian – Hungarian

Project member (9):

1. Hungary-Romania CBC Programme 2007-2013 *"Development of the infrastructure for a pole of excellence in cardiovascular research – HURO-CARDIO-POL"*, project no. HURO/0802/011_AF, 2010-2012 – Contact person
2. Hungary-Romania CBC 2007-2013 *"Implementation of a regional project for translational medical research concerning diseases with high impact in population – HURO-TRANSMED"*, project no. HURO/0901/137/2.2.2, 2011-2012 – Assistant-Manager
3. European project COST (COoperation in the field of Scientific and Technical Research) – Action *"EUropean network to tackle METAbolic alterations in HEART failure – EU-METAHEART"*, code CA22169, 2023-2027 – Member in the Management Committee for RO
4. European project COST – Action *"Realising the therapeutic potential of novel cardioprotective therapies" – EU-CARDIOPROTECTION"*, code CA16225, 2017-2022 and its continuation COST Innovation Grant, code CIG CA16225, 2022-2023 – Member in the Management Committee for RO
5. European project COST – Action *"Mitochondrial Fitness Mapping - Evolution-Age-Gender-Lifestyle-Environment – MITOEAGLE"*, code CA15203, 2016-2021 – Member in the Management Committee for RO
6. European project COST – Action *"The Network for the Biology of Zinc – ZINC NET"*, code TD1304, 2013-2017 – Member in the Management Committee for RO
7. European project COST – Action *"European Network on Gasotransmitters – ENOG"*, code BM1005, 2011-2015 – Member in the Management Committee for RO
8. European project COST – Action *"Hypoxia Sensing, Signaling and Adaptation - HYPOXIA NET"*, code TD0901, 2010-2013 – Substitute Member in the Management Committee for RO
9. European project COST, Action *"Bioactive Food Components, Mitochondria Function and Health" – MITOFOOD"*, code FA0602, 2007-2011 – Member in the Management Committee for RO

B. NATIONAL PROJECTS (18):

Project coordinator (4):

1. National Association for Scientific Research (NASR) Project *"Cardioprotective Strategies at Reperfusion: Mitochondria as Multiple Therapeutic Target – CARDIO-MITO-PROT"* category: Complex Partnerships II, code 2560/2008, contract nr. 42 122/2008, 2008-2011
2. National University Research Council (NURC) Project *"Integrative Role of Mitochondria in Cardioprotection Induced by Myocardial Experimental Ischemia/Reperfusion"*, category: A, code CNCSIS 752/2006, 2006-2008
3. Romanian Academy Grant *"In vitro Studies Concerning the Respiratory Function of Mitochondria Subpopulations Isolated from the Mammalian Myocardium"*, contracts nr. 152/2007 and 148/2008, 2006-2008
4. Mobility Project for Researchers within the National Program for Research & Development II, category Human Resources, code CNCSIS 54/2008, participation at *The XXVIII European Section Meeting of The International Society For Heart Research (ISHR-ES)*, Athens, Greece, 27 May - 3rd June 2008

Project partner coordinator (1):

- ✓ Sectoral Operational Human Resources Development (SOP HRD) Program 2007-2013 Project financed from the European Social Fund and by the Romanian Government *"Careers of Excellence in Research & Knowledge Based Society By Financing PhD Studies in Universities – EXCEL-FIN"*, contract number POSDRU/107/1.5/S/82839, 2009 -2013

Project member (13):

1. University Internal Grant for Experienced Researchers *"Translational Innovative Study From Basic Research To Clinical Applicability: Mitochondrial Dysfunction and Inflammation in Diabetic Kidney Disease"*, code 6EXP/1320/2020, 2020 - 2023
2. Romanian-French Bilateral Cooperation *"Novel Insights in Vascular Protection Mediated By Purinergic Signaling – PUR-VASC-PROTECT"*, code 75 BM/2017, 2017 - 2018
3. University Internal Grant within the Program Partnerships in Innovative Basic Research *"Role of Vitamin D in Modulating The Vascular and Mitochondrial Function in Animal and Human Adipose Tissue – VASC-ADIPO-MIT"*, code PIII-C5-PCFI-2017/2018-01, 2017 - 2018
4. National Association for Scientific Research (NASR), Exploratory Research Project *"Assessment of Cardioprotective Effects of ATP-Dependent Potassium Channels Modulators"*, code PNII-ID-PCE-2012-4-0512, 2012 - 2016

5. Romanian-French Bilateral Cooperation *"Novel Insights in Vascular Protection Mediated By Purinergic Signaling – PUR-VASC-PROTECT"*, code 75 BM/2017, 2017 - 2018
6. University Internal Grant within the Program Partnerships in Innovative Basic Research *"Role of Vitamin D in Modulating The Vascular and Mitochondrial Function in Animal and Human Adipose Tissue – VASC-ADIPO-MIT"*, code PIII-C5-PCFI-2017/2018-01, 2017 - 2018
7. National Association for Scientific Research (NASR), Exploratory Research Project *"Assessment of Cardioprotective Effects of ATP-Dependent Potassium Channels Modulators"*, code PNII-ID-PCE-2012-4-0512, 2012 - 2016
8. University Internal Grant within the Program Partnerships in Innovative Basic Research *"Contribution of Monoamine Oxidases- Related Oxidative Stress To the Cardiovascular Dysfunction and Prognostic of Coronary Patients With and Without Diabetes Mellitus – MAO-CARDIO-SOX"*, code PIII-C1-PCFI-2014/2015-04, 2014 - 2015
9. National Association for Scientific Research (NASR) Project *"New strategies in the management of the organ donor: optimization of heart prelevation protocol by pharmacological preconditioning with anesthetics – TRANACONDA"*, code 2463/2008, 2008 - 2011
10. National University Research Council (NURC) Project *"Volatile anaesthetics induced cardioprotection: new insights in the intracellular signaling in myocardial pre- and postconditioning – CARDIO-PROTECT-ANEST"*, category Ideas – Complex Research Projects, code ID_1254/2007, 2007 - 2010
11. Research of Excellence Project of Partnership in Research and Development *"Novel methods for inducing non-self phenotypes immune tolerance to prevent post transplantation graft rejection - GREFACCEPT"*, category CEEX P-CD, code 194/2006, 2006 - 2009
12. Research of Excellence Project of Partnership in Research and Development, *"Computational optimization of diagnosis, surgical interventions and prognosis of cardiovascular diseases – CARDIOCOMP"*, category CEEX P-CD, code 81/2006, 2006 - 2009
13. National University Research Council (NURC) Project *"The impact of the functional foods containing bioactive components over the quality of life in breast cancer"*, category NURC type A, code 275/2005, 2005 - 2007

C. POSTDOCTORAL GRANTS (2):

- NATO-CNR (Consiglio Nazionale delle Ricerche) Rome, Italy Senior Outreach Fellowship in Life Sciences for Eastern Europe, code 217.36 S/12.05.2004 (won by competition, 1st place - with 27/30 points) in the field of *Mitochondria Involvement in Cellular Death Induced by Myocardial Experimental Ischemia/Reperfusion*, May-July 2005, Department of Biological Chemistry, University of Padova, Italy – Supervisor, Prof. Fabio Di Lisa

- Hospices Civils de Lyon, postdoctoral fellowship in the field of *Cardioprotection by Ischemic and Anesthetic Preconditioning*, October 2002-July 2003, INSERM Unit 0226 Cardioprotection, Claude Bernard University, Lyon, France – Supervisor, Prof. Michel Ovize

III. Participation in Evaluation Activities of International/National Research Projects:

1. Expert Referee for international funding agencies:
 - *Health and Medical Research Fund (HMRF) from the Government of Hong-Kong Special Administrative Region (HKSAR)* – 2018, 2017, 2014
 - *Scientific Grant Agency of the Ministry of Education of the Slovak Republic and of the Slovak Academy of Sciences (VEGA)* – 2015, 2011
 - *National Research, Development and Innovation Office (NKFIH) Hungary* – 2016
 - *Hungarian Scientific Research Fund (OTKA)* – 2013
2. Expert Referee of the Romanian Agency for Quality Assurance in Higher Education (ARACIS) – member of Commission 12 *"Medical Sciences"* (2011 – 2018)
3. Expert Referee for the National University Research Council (NURC) of Romania – member of Commission 6 *"Medical Sciences"* (2008 - 2010)
4. Expert Referee for NURC (2004 – 2010) and CEEX (2005 – 2006) – projects assessment

IV. Organization of Scientific International & National Meetings (most relevant):

International Meetings:

Chairman of the:

- ✓ 9th European Section Meeting of the International Academy of Cardiovascular Sciences, October 4-7, 2023, Timișoara, Romania

- ✓ Advanced Research Workshop "Translational Research in Mitochondria Disease - From Molecule To Man", 16 October 2015, Timișoara, Romania
- ✓ Conference & Advanced Research Workshop „Sudden Cardiac Death & Cardioprotection” organized under the patronage of the International Academy of Cardiovascular Sciences (IACS), September 6-9, 2012, Timișoara, Romania

Co-chairman of the:

- ✓ Webinar *International Cooperation in Research at "Victor Babeș" University of Medicine and Pharmacy - "Pathophysiology at the Heart of Medicine"*, December, 9-10, 2021 (on-line)
- ✓ Workshop "Mitochondrial Research: From Organelle to Patient " within The 49th Annual Scientific Meeting of the European Society for Clinical Investigation, May 27-30, 2015, Cluj-Napoca, Romania

Member in the Scientific/Organizing Committees of the:

- ✓ 9th International Congress of Pathophysiology, July 4-7, 2023, Belgrade, Serbia
- ✓ 8th European Section Meeting of the International Academy of Cardiovascular Sciences, September 28 – October 1, 2022 Szeged, Hungary
- ✓ 6th Meeting of European Section & 7th Meeting of North American Section of the International Academy of Cardiovascular Sciences "Cardiometabolic Diseases: How New Research May Lead To New Cardioprotective Therapy", September 11-14, 2019, Vrnjacka Banja, Serbia
- ✓ 5th European Section Meeting of the International Academy of Cardiovascular Sciences (IACS-ES) "Advances in Cardiovascular Research - From Basic Mechanisms To Therapeutic Strategies", May 23-26, 2018, Bratislava, Slovakia
- ✓ IVth Congress of Physiological Sciences of Serbia with international participation, September 19-23, 2018, Faculty of Medicine, Nis, Serbia
- ✓ 13th Meeting *New Frontiers In Basic Cardiovascular Research*, November 11-14, 2018, Prague, Czech Republic
- ✓ The 3rd Congress of Physiological Sciences of Serbia with international participation, October 29-31, 2014, Belgrade, Serbia

National Meetings:

Member in the Scientific/Organizing Committees of the:

- 11th National Conference of Pathophysiology, September 4-7, 2019, Târgu Mureș, Romania
- 10th National Conference of Pathophysiology, September 6-9, 2017, Cluj-Napoca, Romania
- National Congress of Pathophysiology, May 7-10, 2015, Iasi, Romania
- 5th International Congress & the 31th Annual Scientific Session of Romanian Society of Cell Biology, June 5-9, 2013, Timișoara, Romania

Chairman of the:

- Advanced Research Workshop "Translational Research in Mitochondria Disease - From Molecule To Man", 16 October 2015, Timișoara, RO
- Conference and Translational Research Workshop „Chronic Diseases: From Pathogenesis to Therapy", 25-27 October 2012, Timișoara, RO

Academic activities

I. Academic activities/titles:

- Rector's Counselor for *Scientific Research* (2020-to date)
- President of the *Central Commission for the Graduation Exam* of the university (2020 - to date)
- President of the *Senate Commission for Revision of University Charter and Regulations* (2016-to date)
- President of the *Senate Commission for University Studies and Academic Evaluation* (2012 - 2016)
- Member of the *University Senate* (since 2012 - to date, and re-election for the mandate 2024 - 2029)
- Member of the *Scientific Council* of the university (2008-2012);
- Referee in *Commissions for Habilitation degree* (since 2015 - to date)
- Referee in *Doctoral Commissions* (since 2008 - to date)
- Referee in *Commissions for promotion in academic positions* in the University (2002 - to date)
- Referee in *Commissions for Student Admission at the Faculty of Medicine* (1996 - 2000).

II. Peer-review activity:

- **Associate Editor:** *Molecular and Cellular Biochemistry*; **Member in the Editorial Board:** *Experimental and Applied Biomedical Research*, Timișoara Medical Journal, *Education and Research in Health Sciences*; **Ad-hoc Reviewer** for: *Atherosclerosis & Vascular Thrombosis*, *Molecular and Cellular Biochemistry*, *Clinical & Experimental Pharmacology and Physiology*, *Canadian Journal of Physiology and Pharmacology*, *Archives of Medical Sciences*, *International Journal of Molecular Sciences*, *Journal of Natural Products*, *Phytotherapy Research*, *Current Medicinal Chemistry*, *PLOS One*, *Journal of Biomedical Science and Engineering*, *General Physiology and Biophysics*, *Oxidative Medicine and*

Longevity, Medicina, BMC Pharmacology and Toxicology, Romanian Journal of Laboratory Medicine, Romanian Journal of Cardiology.

II. International & National Recognition/Prizes

- ✓ **IACS Lifetime Achievement Award** offered by the **International Academy of Cardiovascular Sciences (IACS)** at the conference The 9th European Section Meeting of the International Academy of Cardiovascular Sciences (IACS-ES), 4–7 October 2023, Timișoara, Romania
- ✓ **Prize for excellence in teaching activity at the Faculty of Medicine of the university – 2015**
- ✓ **Prizes at national and international meetings of the mentored undergraduate students/PhD students/postdocs > 55 (2009 – to date)**

Other skills/competences

I. Affiliation to Professional Societies:

International Societies:

International Academy of Cardiovascular Sciences - European Section (IACS-ES) - Vice-President
International Society for Heart Research (ISHR)
Mitochondria Physiology Society (MiP)

National Societies:

Romanian Society of Pathophysiology - General Secretary 2005 - 2007 and 2012 - 2015, Vice-President 2016 - to date
Romanian Society of Cardiology - Founding member of the *Working Group for Experimental Cardiology* within the Romanian Society of Cardiology (in 2019).

II. Certificate of Complementary Studies in the Management of Health Services (2014)

III. Competences in operating a computer, using applications such as word processing packages, spreadsheets and databases (Word, Excel, PowerPoint) and statistics software (GraphPad)

Prof. Muntean M. Danina, MD, PhD, Dr.Hab

Timișoara, January 21, 2024

LIST OF ISI PUBLICATIONS AS MAIN AUTHOR (Past 10 years)

No.	Paper (authors, title, journal)	IF
1.	Bețiu AM, Lighezan R, Avram VF, Muntean DM , Elmér E, Petrescu L. <i>Dose-dependent effects of acetaminophen and ibuprofen on mitochondrial respiration of human platelets.</i> Mol Cell Biochem. 2023 Jul 24. doi: 10.1007/s11010-023-04814-z. (correspond. author)	4.3
2.	Merce AP, Ionică LN, Bîă AM, Popescu S, Lighezan R, Petrescu L, Borza C, Sturza A, Muntean DM , Crețu OM. <i>Monoamine Oxidase Is a Source of Cardiac Oxidative Stress in Obese rats: the Beneficial role of Metformin.</i> Mol Cell Biochem. 2023;478(1):59-67. doi: 10.1007/s11010-022-04490-5. (correspond. author)	4.3
3.	Lascu A, Ionică LN, Merce AP, Dănilă MD, Petrescu L, Sturza A, Muntean DM , Streian CG. <i>Metformin Acutely Mitigates Oxidative Stress in Human Atrial Tissue: A Pilot Study in Overweight Non-Diabetic Cardiac Patients.</i> Life. 2022; 2(12): 2058. doi.org/10.3390/life12122058 (correspond. author)	3.2
4.	Bețiu AM, Noveanu L, Hâncu IM, Lascu A, Petrescu L, Maack C, Elmér E, Muntean DM . <i>Mitochondrial Effects of Common Cardiovascular Medications: The Good, the Bad and the Mixed.</i> Int J Mol Sci. 2022; 23(21) 13653; doi.org/10.3390/ijms232113653	5.6
5.	Avram VF, Merce AP, Hâncu IM, Bătrân AD, Kennedy G, Rosca MG, Muntean DM . <i>Impairment of Mitochondrial Respiration in Metabolic Diseases: An Overview.</i> Int J Mol Sci. 2022; 23(16) 8852; doi: 10.3390/ijms23168852.	5.6
6.	Bîă AM, Sturza A, Iancu I, Mocanu AG, Bernad E, Chiriă DV, Borza C, Craina ML, Popa ZL, Muntean DM , Crețu OM. <i>Placental oxidative stress and monoamine oxidase expression are increased in severe preeclampsia: a pilot study.</i> Mol Cell Biochem. 2022; 477(12):2851-2861. doi: 10.1007/s11010-022-04499 (correspond. author)	4.3
7.	Bîă AM, Aburel OM, Avram VF, Lelcu T, Lința AV, Chiriă DV, Mocanu AG, Bernad A, Borza C, Craina ML, Muntean DM , Crețu OM. <i>Impairment of mitochondrial respiration in platelets and placentas: a pilot study in preeclamptic pregnancies.</i> Mol Cell Biochem 2022;477(7):1987-2000.doi:10.1007/s11010-022-04415-2 (correspond. author)	4.3
8.	Lelcu T, Bîă A, Dănilă MD, Popoiu C, Aburel OM, Arghirescu ST, Borza C, Muntean DM . <i>Assessment of platelet mitochondrial respiration in a pediatric population: A pilot study in healthy children and children with acute lymphoblastic leukemia.</i> Children (Basel) 2021 Dec 17;8(12):1196. doi: 10.3390/children8121196	2.835
9.	Savencu CE, Lința A, Farcaș G, Bîă AM, Crețu OM, Malița DC, Muntean DM , Sturza A. <i>Impact of Dietary Restriction Regimens on Mitochondria, Heart and Endothelial Function – A Brief Overview.</i> Front Physiology. 2021 12:768383. doi: 10.3389/fphys.2021.768383 (correspond. author)	4.38
10.	Bețiu AM, Chamkha I, Gustafsson E, Meijer E, Avram VF, Åsander Frostner E, Ehinger JK, Petrescu L, Muntean DM , Elmér E. <i>Cell-Permeable Succinate Rescues Mitochondrial Respiration in Cellular Models of Amiodarone Toxicity.</i> Int J Mol Sci. 2021 Oct 29;22(21):11786. doi: 10.3390/ijms222111786. (corresp. author)	6.208
11.	Ionică LN, Gaiță L, Bîă AM, Șoșdean, Lighezan R, Sima A, Malița D, Crețu OM, Burlacu O, Muntean DM , Sturza A. <i>Metformin alleviates monoamine oxidase-related vascular oxidative stress and endothelial dysfunction in rats with diet-induced obesity.</i> Mol Cell Biochem 2021; 476(11):4019-4029. doi.org/10.1007/s11010-021-04194-2 (correspond. author)	2.795
12.	Coricovac D, Dehelean CA, Pînzaru I, Mioc A, Aburel OM, Macașoi I, Draghici GA, Petean C, Șoica CM, Boruga M, Vlaicu B, Muntean MD . <i>Assessment of Betulinic Acid Cytotoxicity and Mitochondrial Metabolism Impairment in a Human Melanoma Cell Line.</i> Int J Mol Sci 2021;22(9), 4870; https://doi.org/10.3390/ijms22094870	6.208
13.	Avram VF, Bîă AM, Sima A, Aburel OM, Sturza A, Burlacu O, Timar RZ, Muntean DM , Elmér E, Crețu OM. <i>Improvement of Platelet Respiration by Cell-Permeable Succinate in Diabetic Patients Treated with Statins.</i> Life (Basel) 2021; 11(4): 288 doi.org/10.3390/life11040288 (correspond. author)	3.817
14.	Aburel OM, Pavel IZ, Maria D. Dănilă MD, Lelcu T, Roi A, Lighezan R, Muntean DM , Rusu LC. <i>Pleiotropic Effects of Eugenol: The Good, the Bad, and the Unknown.</i> Oxid Med Cell Longev. 2021, Article ID 3165159, doi.org/10.1155/2021/3165159 (correspond. author)	7.310
15.	Avram V, Chamka I, Åsander-Frostner E, Ehinger JK, Timar RZ, Hansson MJ, Muntean DM , Elmér E. <i>Cell-Permeable Succinate Rescues Mitochondrial Respiration in Cellular Models of Statin Toxicity.</i> Int J Mol Sci 2021; 22(1): 424, doi.org/10.3390/ijms22010424 (correspond. author)	6.208
16.	Dănilă MD, Piollet M, Aburel OM, Angoulvant D, Lefort C, Chadet S, Roger S, Muntean MD, Ivanes F.	4.432

	<i>Modulation of P2Y11-related purinergic signaling in inflammation and cardio-metabolic diseases. Eur J Pharmacol. 2020 Jun 5;876:173060. doi: 10.1016/j.ejphar.2020.173060 (correspond. author)</i>	
17.	Ionică M, Aburel OM, Vaduva A, Petrus A, Rațiu S, Olariu S, Sturza A, Muntean DM . <i>Vitamin D Alleviates Oxidative Stress In Adipose Tissue And Mesenteric Vessels From Obese Patients With Subclinical Inflammation. Can J Physiol Pharmacol. 2020; 98(2): 85-92 doi: 10.1139/Cjpp-2019-0340.</i>	2.273
18.	Duca A, Sturza A, Moacă EA, Negrea M, Lalescu VD, Lungeanu D, Dehelean CA, Muntean DM , Alexa E. <i>Identification of Resveratrol as Bioactive Compound of Propolis from Western Romania and Characterization of Phenolic Profile and Antioxidant Activity of Ethnolic Extracts. Molecules. 2019 16;24(18). Pii: E3368. doi: 10.3390/Molecules24183368. (correspond. author)</i>	3.267
19.	Sturza A, Popoiu MC, Ionică M, Duicu OM, Olariu S, Muntean DM , Boia ES. <i>Monoamine Oxidase-Related Vascular Oxidative Stress in Diseases Associated with Inflammatory Burden. Oxid Med Cell Longev. 2019, Article ID 8954201. doi: 10.1155/2019/8954201. (correspond. author)</i>	5.076
20.	Petrus AT, Lighezan DL, Dănilă MD, Duicu OM, Sturza A, Muntean DM , Ioniță I. <i>Assessment of platelet respiration as emerging biomarker of disease. Physiol Res. 2019; 30;68(3):347-363. (correspond. author)</i>	1.701
21.	Sturza A, Olariu S, Ionică M, Duicu OM, Vaduva A, Boia E, Muntean DM , Popoiu C. <i>Monoamine oxidase is a source of oxidative stress in obese patients with chronic inflammation. Can J Physiol Pharmacol. 2019;97(9):844-849. doi: 10.1139/cjpp-2019-0028. (correspond. author)</i>	1.946
22.	Duca A, Alexa E, Dehelean CA, Șoica C, Danciu C, Popescu I, Cocan I, Lalescu D, Muntean DM . <i>Assessment of lipid profile of eight propolis samples from Western Romania. Farmacia 2019; 67:1. doi.org/10.31925/farmacia.2019.1.17</i>	1.527
23.	Privistirescu AI, Sima A, Duicu OM, Timar R, Roșca MG, Sturza A, Muntean DM . <i>Methylene blue alleviates endothelial dysfunction and reduces oxidative stress in aortas from diabetic rats. Can J Physiol Pharmacol. 2018; 96(10):1012-1016. doi: 10.1139/cjpp-2018-0119.</i>	2.041
24.	Rațiu C, Uțu D, Petrus A, Norbert P, Olariu S, Duicu O, Sturza A, Muntean DM . <i>Monoamine oxidase inhibition improves vascular function and reduces oxidative stress in rats with lipopolysaccharide-induced inflammation. Gen Physiol Biophys. 2018; 37(6):687-694. doi: 10.4149/gpb_2018014</i>	1.479
25.	Sturza A, Vaduva A, Uțu D, Rațiu C, Pop N, Duicu O, Popoiu C, Boia E, Matusz P, Muntean DM , Olariu S. <i>Vitamin D improves vascular function and decreases monoamine oxidase A expression in experimental diabetes. Mol Cell Biochem. 2019; 453(1-2):33-40. doi: 10.1007/s11010-018-3429-2. (correspond. author)</i>	2.884
26.	Muntean DM , Sturza A, Pavel IZ, Duicu OM. <i>Modulation of Cancer Metabolism by Phytochemicals - A Brief Overview. Anticancer Agents Med Chem. 2018; 18(5):684-692. doi: 10.2174/187152061766171114102218.</i>	2.18
27.	Sturza A, Pavel I, Ancușă S, Danciu C, Dehelean C, Duicu O, Muntean D . <i>Quercetin Exerts An Inhibitory Effect On Cellular Bioenergetics of the B164A5 Murine Melanoma Cell Line. Mol Cell Biochem. 2018; 447(1-2):103-109. doi: 10.1007/s11010-018-3296-x.</i>	2.884
28.	Muntean DM , Thompson PD, Catapano AL, Stasielek M, Fabis J, Muntner P, Serban MC, Banach M. <i>Statin-Associated Myopathy And The Quest For Biomarkers: Can We Effectively Predict Statin-Associated Muscle Symptoms? Drug Discov Today 2017; 22(1):85-96.</i>	6.848
29.	Văduva AO, Glămeanu C, Negrea R, Muntean DM , Demă AL. <i>In Vivo Confocal Microscopy Quantification of Reactive Oxygen Species: A Working Model In Rat Kidney. Rom J Morphol Embryol. 2017; 58(3):953-960. (correspond. author)</i>	0.912
30.	Dănilă MD, Privistirescu A, Duicu O, Rațiu CD, Angoulvant D, Muntean DM , Sturza A. <i>The Effect of Purinergic Signaling Via The P2Y11 Receptor on Vascular Function In A Rat Model of Acute Inflammation. Mol Cell Biochem. 2017 Jul; 431 (1-2): 37-44. doi: 10.1007/s11010-017-2973-5. (correspond. author)</i>	2.561
31.	Duicu OM, Privistirescu A, Wolf A, Petrus A, Dănilă MD, Rațiu CD, Muntean DM , Sturza A. <i>Methylene Blue Improves Mitochondrial Respiration and Decreases Oxidative Stress In A Substrate-Dependent Manner In Diabetic Rat Hearts. Can J Physiol Pharmacol. 2017; 95(11):1376-1382. doi: 10.1139/cjpp-2017-0074 (correspond. author)</i>	2.21
32.	Uțu D, Pantea S, Duicu OM, Muntean DM , Sturza A. <i>Contribution Of Monoamine Oxidases To Vascular Oxidative Stress In Patients With End Stage Renal Disease Requiring Hemodialysis. Can J Physiol Pharmacol. 2017; 95(11):1383-1388. doi: 10.1139/cjpp-2017-0067 (correspond. author)</i>	2.21
33.	Pavel IZ, Părvu AE, Dehelean CA, Csuk R, Vlase L, Muntean DM . <i>Assessment Of The Antioxidant Effect Of A Maslinic Acid Derivative In An Experimental Model Of Acute Inflammation. Farmacia 2017; 65(3):390-395.</i>	1.507
34.	Petrus A, Rațiu C, Noveanu L, Lighezan R, Roșca M, Muntean D , Duicu O. <i>Assessment Of Mitochondrial Respiration In Human Platelets. Rev Chim (Bucharest) 2017; 68(4):768-771. (correspond. author)</i>	1.412
35.	Pavel IZ, Dehelean CA, Farczadi L, Muntean D, Vlase L, Danciu C, Csuk R, Birsasteanu F, Muntean D.M . <i>Assessment Of A Maslinic Acid Derivative And Its Metabolite In Rat Blood By Liquid Chromatography</i>	1.412

	<i>Coupled With Mass Spectrometry. Rev Chim (Bucharest) 2017; 68(5): 1089-1094.</i>	
36.	Muntean DM , Sturza A, Dănilă MD, Borza C, Duicu OM, Mornos C. <i>The Role of Mitochondrial Reactive Oxygen Species in Cardiovascular Injury and Protective Strategies. Oxid Med Cell Longev 2016; 8254942</i> doi: 10.1155/2016/8254942	4.593
37.	Lighezan R, Sturza A , Duicu OM, Ceausu RA, Vaduva A, Gaspar M, Feier H, Vaida M, Ivan V, Lighezan D, Muntean DM , Mornos C. <i>Monoamine oxidase inhibition improves vascular function in mammary arteries from nondiabetic and diabetic patients with coronary heart disease. Can J Physiol Pharmacol. 2016; 94(10):1040-1047</i> doi:10.1139/cjpp-2015-0580 (correspond. author)	1.822
38.	Duicu OM, Lighezan R, Sturza A, Balica R, Vaduva A, Feier H, Gaspar M, Ionac A, Noveanu L, Borza C, Muntean DM , Mornos C. <i>Assessment of Mitochondrial Dysfunction and Monoamine Oxidase Contribution to Oxidative Stress in Human Diabetic Hearts. Oxidative Med Cell Longev 2016; 8470394.</i> doi: 10.1155/2016/847039. (correspond. author)	4.593
39.	Pavel IZ, Danciu C, Oprean C, Dehelean CA, Muntean D, Csuk R, Muntean DM . <i>In Vitro Evaluation of The Antimicrobial Ability and Cytotoxicity on Two Melanoma Cell Lines of A Benzylamide Derivative of Maslinic Acid. Anal Cell Pathol (Amst) 2016; 2787623.</i> doi: 10.1155/2016/2787623	1.078
40.	Petrus A, Sturza A, Utu D, Bedreag O, Kiss L, Baczkó I, Muntean D , Jost, N. <i>Modulation of Vascular Reactivity by Novel Synthetic Benzopyran Analogues in Rat Aortas. Rev Chim (Bucharest) 2016; 67(11):2302-2305.</i> (correspond. author)	1.232
41.	Sturza A, Duicu O, Vaduva A, Danila M, Ionita I, Munteanu M, Muntean D , Lighezan R. <i>Hydrogen peroxide promotes endothelial dysfunction by decreasing nitric oxide bioavailability in experimental diabetes mellitus. Rev Chim (Bucharest) 2016;67 (11): 2302-2305.</i> (correspond. author)	1.232
42.	Muntean DM , Kiss L, Jost N, Baczkó I. <i>ATP-Sensitive Potassium Channel Modulators And Cardiac Arrhythmias: An Update. Curr Pharm Des. 2015, 21(8):1091-1102.</i>	3.052
43.	Sturza A, Duicu OM, Vaduva A, Dănilă MD, Noveanu L, Varró A, Muntean DM . <i>Monoamine Oxidases Are Novel Sources Of Cardiovascular Oxidative Stress In Experimental Diabetes. Can J Phys Pharmacol 2015; 93:555-561.</i> doi: 10.1139/cjpp-2014-0544	1.704
44.	Duicu OM, Lighezan R, Sturza A, Ceausu RA, Borza C, Vaduva A, Noveanu L, Gaspar M, Ionac A, Feier H, Muntean DM , Mornos C. <i>Monoamine Oxidases As Potential Contributors To Oxidative Stress In Diabetes: Time For A Study In Patients Undergoing Heart Surgery. BioMed Research International 2015; 515437.</i> doi: 10.1139/cjpp-2014-0544 (correspond. author)	2.134
45.	Dănilă MD, Privistirescu AI, Mirica SN, Sturza A, Ordodi V, Noveanu L, Duicu OM, Muntean DM . <i>Acute Inhibition Of Monoamine Oxidase And Ischemic Preconditioning In Isolated Rat Hearts: Interference With Postischemic Functional Recovery But No Effect On Infarct Size Reduction. Can J Physiol Pharmacol 2015; 93(9):819-825.</i> doi: 10.1139/cjpp-2015-0103	1.704
46.	Duicu O, Scurtu I, Popescu R, Sturza A, Coricovac D, Dănilă M, Privistirescu A, Muntean D . <i>Assessment Of The Effects Of Methylene Blue On Cellular Bioenergetics In H9c2 Cells. Rev Chim (Bucharest) 2015; 66(4):519-522.</i>	0.956
47.	Sturza A., Duicu O., Vaduva A., Noveanu L., Danila M., Privistirescu A., Timar R., Muntean D. , Munteanu M. <i>Reduction Of RAGE Expression By Vitamin D In Isolated Diabetic Rat Aortas. Rev Chim (Bucharest) 2015; 66(9):1509-1512.</i>	0.956
48.	Sturza A, Noveanu L, Duicu O, Dănilă M, Jost N, Muntean D , Munteanu M. <i>Reversible Inhibition of Monoamine Oxidase A Improves Vascular Function in Canine Carotid Arteries Exposed To Angiotensin II. Rev Chim (Bucharest) 2015; 66(6):851-854.</i> (correspond. author)	0.956
49.	Dănilă MD, Benoist L, Lefort C, Ivanec F, Muntean D , Angoulvant D, Chadet S. <i>Modulation of Purinergic Receptors is Protective Against Hypoxia/Reoxygenation Injury in AC16 Cardiomyocytes. Rev Chim (Bucharest) 2015; 66(12): 2118-2120.</i> (correspond. author)	0.956
50.	Petrus A, Duicu OM, Sturza A, Noveanu L, Kiss L, Dănilă M, Baczkó I, Muntean DM , Jost N. <i>Modulation Of Mitochondrial Respiratory Function And ROS Production By Novel Benzopyran Analogues. Can J Physiol Pharmacol 2015; 93(9):811-8.</i> doi: 10.1139/cjpp-2015-0041. (correspond. author)	1.704
51.	Gheorgheosu D, Duicu O, Dehelean C, Soica C, Muntean D . <i>Betulinic Acid As A Potent And Complex Antitumor Phytochemical: A Minireview. Anticancer Agents Med Chem 2014; 14(7):936-945.</i>	2.469
52.	Popoiu CM, Burian CA, Paunescu V, Boia E, Arghirescu S, Muntean DM , Ordodi VL. <i>Development of A High-Performance Anesthesia Ventilator For Research in Small Animals. Int J Artif Organs 2014; 37(6):436-441.</i> doi: 10.5301/ijao.5000330 (correspond. author)	0.962
53.	Kerti V, Coricovac D, Duicu O, Dănilă M, Dehelean C, Făgădar-Cosma E, Muntean D , Noveanu L. <i>Modulation Of Respiratory Function By 5,10,15,20-Tetrakis(N-Methyl-4-Pyridyl)Porphyrin-Zn(II) Tetrachloride In Isolated Rat Liver Mitochondria. Rev Chim (Bucharest) 2014; 65(5):447-449.</i> (correspond. author)	0.81

54.	Coricovac D, Dobrea C, Dehelean C, Duicu O, Noveanu L, Muntean D , Lighezan R. <i>The Effects Of Glycyrrhiza Glabra L. Total Extract On Liver Mitochondrial Respiratory Function.</i> Rev Chim (Bucharest) 2014; 65(5):608-611. (correspond. author)	0.81
55.	Mellidis K, Ordodi V, Galatou E, Săndesc D, Bubenek S, Duicu O, Muntean D , Lazou A. <i>Activation of Prosurvival Signaling Pathways During The Memory Phase of Volatile Anesthetic Preconditioning in Human Myocardium: A Pilot Study.</i> Mol Cell Biochem 2014; 388(1-2):195-201. (correspond. author)	2.393
56.	Duicu O, Jușcă C, Falniță L, Mirică S, Maximov D, Firă-Mladinescu O, Muntean D . <i>Substrate Specific Impairment of Mitochondrial Respiration in Permeabilized Fibers From Patients With Coronary Heart Disease Vs. Valvular Disease.</i> Mol Cell Biochem 2013; 379 (1-2):229-234.	2.393
57.	Dehelean AC, Feflea S, Gheorgheosu D, Ganta S, Cimpean MA, Muntean D , Amiji MM. <i>Anti-Angiogenic and Anti-Cancer Evalution of Betulin Nanoemulsion in Chicken Chorioallantoic Membrane and Skin Carcinoma In Balb/C Mice.</i> Journal of Biomedical Nanotechnology 2013; 9:577-589. (correspond. author)	7.578
58.	Muntean DM , Ordodi V, Ferrera R, Angoulvant D. <i>Volatile Anaesthetics & Cardioprotection: Lessons From Animal Studies.</i> Fund Clin Pharmacol 2013; 27(1):21-34	2.156
59.	Duicu OM, Mirica SN, Gheorgheosu DE, Fira-Mladinescu O, Muntean DM . <i>Ageing-Induced Decrease In Cardiac Mitochondrial Function In Healthy Rats.</i> Can J Physiol Pharm. 2013; 91(8):593-600.	1.546
60.	Mirica SN, Duicu OM, Trancota SL, Fira-Mladinescu O, Angoulvant D, Muntean DM . <i>Magnesium Orotate Elicits Acute Cardioprotection at Reperfusion In Isolated & In Vivo Rat Hearts.</i> Can J Physiol Pharmacol. 2013; 91(2):108-115.	1.546
61.	Duicu O, Angoulvant D, Muntean DM . <i>Cardioprotection Against Myocardial Reperfusion Injury: Successes, Failures, And Perspectives.</i> Can J Physiol Pharmacol. 2013; 91(8):657-662.	1.546

LIST OF ISI PUBLICATIONS AS CO-AUTHOR (Past 10 years)

No.	Paper (authors, title, journal)	IF
1.	Braescu L, Sturza A, Aburel OM; Sosdean R, Muntean D , Luca CT, Brie DM, Feier H, Crisan S, Mornos C. <i>Assessing the Relationship Between Indexed Epicardial Adipose Tissue Thickness, Oxidative Stress in Adipocytes, and Coronary Artery Disease Complexity in Open-Heart Surgery Patients.</i> Medicina 2024, 6010177. doi.org/10.3390/medicina60010177	2.6
2.	Petrica L, Vlad A, Gadalean F, Muntean DM , Vlad D, Dumitrascu V, Bob F, Milas O, Suteanu-Simulescu A, Glavan M, Jianu DC, Ursoniu S, Balint L, Mogos-Stefan M, Ienciu S, Cretu OM, Popescu R. <i>Mitochondrial DNA Changes in Blood and Urine Display a Specific Signature in Relation to Inflammation in Normoalbuminuric Diabetic Kidney Disease in Type 2 Diabetes Mellitus Patients.</i> Int J Mol Sci 2023, 24(12): 9803. doi: 10.3390/ijms24129803	5.6
3.	Lascu A, Ionică LN, Buriman DG, Merce AP, Deaconu L, Borza C, Crețu OM, Sturza A, Muntean DM , Feier HB. <i>Metformin and Empagliflozin Modulate Monoamine Oxidase-Related Oxidative Stress and Improve Vascular Function in Human Mammary Arteries.</i> Mol Cell Bioch 2023; 478(9):1939-1947. doi: 10.1007/s11010-022-04633-8	4.3
4.	Piollet M, Sturza A, Chadet S, Gabillard-Lefort C, Benoist L, Muntean DM , Aburel OM, Angoulvant D, Ivanov F. <i>P2Y11 Agonism Prevents Hypoxia/Reoxygenation- and Angiotensin II-Induced Vascular Dysfunction and Intimal Hyperplasia Development.</i> Int. J. Mol. Sci. 2021, 22(2), 855 doi.org/10.3390/ijms22020855	6.208
5.	Părvulescu L, Stoia DI, Miok K, Ion MC, Puha AE, Sterie M, Veres, M, Marcu I, Muntean MD , Aburel OM. <i>Force and Boldness: Cumulative Assets of a Successful Crayfish Invader.</i> Front. Ecol. Evol. 2021 9:581247. doi: 10.3389/fevo.2021.581247	2.416
6.	Buda V, Andor M, Cristescu C, Tomescu MC, Muntean DM , Băibăță DE, Bordejevic DA, Danciu C, Dalleur O, Coricovac D, Crainiceanu Z, Tudor A, Ledeti I, Petrescu L. <i>Thrombospondin-1 Serum Levels In Hypertensive Patients With Endothelial Dysfunction After One Year Of Treatment With Perindopril.</i> Drug Des Devel Ther. 2019;13:3515-3526. doi: 10.2147/DDDT.S218428.	3.208
7.	Benoist L, Chadet S, Genet T, Lefort C, Heraud A, Danila MD, Muntean DM, Baron C, Angoulvant D, Babuty D, Bourguignon T, Ivanov F. <i>Stimulation of P2Y11 Receptor Protects Human Cardiomyocytes Against Hypoxia/Reoxygenation Injury and Involves PKCepsilon Signaling Pathway.</i> Sci Rep. 2019;9(1):11613. doi: 10.1038/s41598-019-48006-6.	4.011
8.	Maris MI, Cadariu FG, Avram MF, Parv F, Rogobete AF, Muntean DM , Borza C. <i>Are Inherited Combined Thrombophilia Mutations A Causative Or An Additive Factor In Recurrent Venous Thrombotic Accidents?</i> Clin Lab. 2019;65(7). Doi: 10.7754/Clin.Lab.2019.181221.	0.955

9.	Pavel IZ, Csuk R, Danciu C., Avram S, Baderca F, Cioca A, Moacă EA, Mihali CV, Pinzaru I, Muntean DM , Dehelean CA. <i>Assessment of the Antiangiogenic and Anti-Inflammatory Properties of A Maslinic Acid Derivative (and Its Potentiation by Zinc Chloride)</i> . Int. J. Mol. Sci. 2019 , 20(11), 2828; doi.org/10.3390/ijms20112828	4.556
10.	Duicu O., Pavel I.Z., Borcan F, Muntean DM , Chevereșan A, Bratu E, Rusu LC, Karacsi OL. <i>Characterization of the Eugenol Effects on the Bioenergetic Profile of SCC-4 Human Squamous Cell Carcinoma Cell Line</i> . Rev Chem (Bucharest) 2018 ; 69(9): 2567-2570.	1.412
11.	Hentia C, Rizzato A, Camporesi E, Yang Z, Muntean DM , Săndesc D, Bosco G. <i>An overview of protective strategies against ischemia/reperfusion injury: The role of hyperbaric oxygen preconditioning</i> . Brain Behav 2018 ; 8(5):e00959. doi: 10.1002/brb3.959	2.219
12.	Demeter-Haludka V, Kovács M, Petrus A, Patai R, Muntean DM, Siklós L, Végh Á. <i>Examination of the Role of Mitochondrial Morphology and Function in the Cardioprotective Effect of Sodium Nitrite Administered 24 h before Ischemia/Reperfusion Injury</i> . Front Pharmacol. 2018 ; 9:286. doi: 10.3389/fphar.2018.00286.	3.831
13.	Berthiaume JM, Kurdys JG, Muntean DM , Rosca MG. <i>Mitochondrial NAD⁺/NADH Redox State and Diabetic Cardiomyopathy</i> . Antioxid Redox Signal. 2019 ;30(3):375-398 doi: 10.1089/ars.2017.7415.	6.53
14.	Avram, S., Coricovac, D.E., Pavel, I.Z., Pinzaru, I., Ghiulai, R., Baderca, F., Soica, C., Muntean, D. , Branisteanu, D.E., Spandidos, D.E., Tsatsakis, A.M., Dehelean, C.A. <i>Standardization Of A375 Human Melanoma Models On Chicken Embryo Chorioallantoic Membrane And Balb/C Nude Mice</i> . Oncology Reports 2017 ; 38: 89-99. doi: 10.3892/or.2017.5658	2.976
15.	Mornoș C, Muntean D , Mornoș A, Crișan S, Petrescu L, Ionac A, Sosdean R, Cozma D. <i>Risk Stratification In Patients With Heart Failure: The Value Of Considering Both Global Longitudinal Left Ventricular Strain And Mechanical Dispersion</i> . Can J Physiol Pharmacol. 2017 ; 95(11):1360-1368. doi: 10.1139/cjpp-2017-0049	2.21
16.	Azghadi, S.M., Suciu, M., Gruia, A.T., Barbu-Tudoran, L., Cristea, M.I., Mic, A.A., Muntean, D. , Nica, D.V., Mic, F.A. <i>Mesenchymal stromal cells support the viability and differentiation of thymocytes through direct contact in autologous co-cultures</i> . Histochem Cell Biol 2016 ; 146(2):153-65.	2.533
17.	Gruia A, Suciu M, Barbu-Tudoran L, Reza Azghadi SM, Cristea M, Nica D, Vaduva A, Muntean D , Mic AA, Mic F. <i>Mesenchymal stromal cells differentiating to adipocytes accumulate autophagic vesicles instead of functional lipid droplets</i> . J Cell Physiology 2016 ; 231(4):863-875.	4.08
18.	Pavel IZ, Duicu OM, Danciu C, Dehelean C, Bojin F, Paunescu V, Muntean D , Sturza A, Noveanu L. <i>Immune and Bioenergetic Profiling of a Human Dermal Fibroblast Cell Line</i> . Rev Chim (Bucharest) 2015 ; 66(11): 1755-1758.	0.956
19.	Minda D, Pavel IZ, Borcan F, Coricovac D, Pinzaru I, Andrica F, Morgovan C., Nita L.D., Soica C., Muntean D , Toma C.C. <i>Beneficial effects of a lupeol-cyclodextrin complex in a murine model of photochemical skin carcinoma</i> . Rev Chim (Bucharest) 2015 ; 66 (3):373-377	0.956
20.	Coricovac, D., Soica, C., Muntean, D., Popovici, R.A., Dehelean, C., Hogeia, E. <i>Assessment of the Effects Induced by Two Triterpenoids on Liver Mitochondria Respiratory Function Isolated from Aged Rats</i> . Rev Chim (Bucharest) 2015 ; 66(10):1707-1710	0.956
21.	Citu IO, Coricovac D, Kerti V, Duicu O, Privistirescu A, Ardelean S, Muntean D , Dehelean C. <i>Decreased respiratory function in liver mitochondria isolated from healthy old rats</i> . Farmacia 2015 ; 63(1):99-103	1.162
22.	Baczko I, Lepran I, Kiss L, Muntean DM , Light PE. <i>Future perspectives in the pharmacological treatment of atrial fibrillation and ventricular arrhythmias in heart failure</i> . Curr Pharm Des 2015 ; 21(8):1011-1029	3.052
23.	Touboul, C., Angoulvant, D., Mewton, N., Ivanov, F., Muntean, D. , Prunier, F., Ovize, M., Bejan-Angoulvant, T. <i>Ischemic postconditioning reduces infarct size: Systematic review and meta-analysis of randomized controlled trials</i> . Arch Cardiovasc Dis 2015 ; 108(1):39-49	2.271
24.	Duicu O, Ciurlea S. Dehelean C., Ardelean, S., Andrica, F., Muntean, D. , Soica, C., Antal, D., Coricovac, D., Pinzaru, I. <i>Analysis of a betulonic acid formulation on liver mitochondria isolated from mice with induced murine melanoma</i> . Rev Chim (Bucharest) 2014 ; 65 (8):956-959	0.81
25.	Serban C, Muntean D , Mikhailidis D., Toth P., Banach M. <i>Dysfunctional HDL: The journey from savior to slayer</i> . Clin. Lipidol. 2014 ; 9(1): 49–59	0.867
26.	Soica C, Trandafirescu C, Danciu C, Muntean D , Dehelean C, Simu G. <i>New improved drug delivery technologies for pentacyclic triterpenes: A review</i> . Protein & Peptide Letters 2014 ; 21(11):1137-1145.	1.068
27.	Corici C, Kohajda Z, Kristóf A, Horváth A, Virág L, Szél T, Nagy N, Szakonyi Z, Fülöp , Muntean DM , Varró A, Jost N. <i>L-364,373 (R-L3) enantiomers have opposite modulating effects on IKs in mammalian ventricular myocytes</i> . Can J Physiol and Pharmacol 2013 ; 9:586-592	1.546
28.	Sturza A, Leisegang MS, Babelova A, Schröder K, Benkhoff S, Loot AE, Fleming I, Schulz R, Muntean DM, Brandes RP. <i>Monoamine oxidases are mediators of endothelial dysfunction in mouse aorta</i> . Hypertension	7.632

	2013; 62(1):140-146	
29.	Gheorgheosu D, Jung M, Schmid T, Oren B, Dehelean C, Muntean D , Brüne B. <i>Betulinic acid suppresses NGAL-induced epithelial-to-mesenchymal transition in melanoma.</i> Biol Chem 2013; 394(6):773-81	2.689
30.	Raducan, A., Mirica, S.N., Duicu, O., Raducan, S., Muntean, D. , Fira-Mladinescu, O., Lighezan, R. - <i>Morphological and functional aspects of sciatic nerve regeneration after crush injury.</i> Rom J Morphol Embryol 2013; 54(3):735-739	0.723
31.	Heghes A, Soica CM, Ardelean S, Ambrus R, Muntean D. , Galuscan A, Dragos D., Ionescu D., Borcan F. <i>Influence of Emulsifiers on the Characteristics of Polyurethane Structures Used As Drug Carrier.</i> Chem Cent J 2013; 7(1):66. doi: 10.1186/1752-153X-7-66.	1.663