



Personal information

First name(s) / Surname(s)

Danina-Mirela MUNTEAN

Address(es)

Department of Functional Sciences – Pathophysiology, Faculty of Medicine
"Victor Babeş" 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

Nationality

Romanian

Occupational field

Work experience

Dates

February 2014 – to date

Occupation or position held

Director of the Center for Translational Research & Systems Medicine, Faculty of Medicine
"Victor Babeş" 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 Babeş" 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 Babeş" 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 Babeş" 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 of Timișoara, Romania

Type of business or sector Health

Education and training**Date** December 2017Title of qualification awarded **Diploma of Habilitation in Medicine** (Dr. Hab.)Title of thesis: *"Mitochondria As Therapeutic Target In Translational Research And Drug Repurposing"***Dates** October 1997 – July 2002Title of qualification awarded **Diploma of Doctor of Philosophy in Medicine** (PhD)Principal subject Title of thesis: *"Myocardial Ischemic Preconditioning and Cardioprotection Against Ischemia/Reperfusion-Induced Arrhythmias"*

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 1989Title 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

Other languages

Self-assessment

European level (*)

English**French****Romanian**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Advanced	C2	Proficient	C2	Proficient	C2	Proficient	C1	Advanced
C1	Advanced	C2	Proficient	B2	Independent	B2	Independent	B2	Independent

(*) Common European Framework of Reference for Languages

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
- Lectures within the **Doctoral School** of the university - optional course *"Experimental Models in Translational Research"* (2016 - 2022); compulsory course *"Experimental Models in Research"* (since 2022-2023)
- Lectures within a **Master program** at the Faculty of Pharmacy - compulsory course *"OTC drugs, dietary supplements and cosmetics"* (2015 - 2019)
- 4. Coordination of postgraduate courses** (since 2006 - to date) - selection:
"Updates in Laboratory and Exploratory Diagnostic: From Biomarkers To Algorithms" (2-12.02.2022),
"Advances in the Pathophysiology, Diagnostic Markers and Cardiovascular Risk Assessment in

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: 20 (WOS); 23 (Scopus); 27 (Google Scholar)

Publications in journals with IF: 61 papers (as main author) and 35 papers (as co-author)

Cumulative IF as main author > 125

ORCID: 0000-0001-6186-5321

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

I. Director of the Center 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 on 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 Bacsko, 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.

II. Participation in International/National Research Projects (25):

a. INTERNATIONAL PROJECTS (10):

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 Joint Projects in S&T, code RO 24/2007 ID RO 17/2007, contract nr. 55/2008, 2008-2009

Project member (8):

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 "*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
4. European project COST – Action "*Mitochondrial Fitness Mapping - Evolution-Age-Gender-Lifestyle-Environment – MITOEGLE*", code CA15203, 2016-2021 – Member in the Management Committee for RO
5. European project COST – Action "*The Network for the Biology of Zinc – ZINC NET*", code TD1304, 2013-2017 – Member in the Management Committee for RO
6. European project COST – Action "*European Network on Gasotransmitters – ENOG*", code BM1005, 2011-2015 – Member in the Management Committee for RO
7. European project COST – Action "*Hypoxia Sensing, Signaling and Adaptation - HYPOXIA NET*", code TD0901, 2010-2013 – Substitute Member in the Management Committee for RO
8. 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 (15):

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):

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 (10):

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. 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

6. **National Association for Scientific Research (NASR) Project “New strategies in the management of the organ donor: the optimization of the heart and kidney prelevation protocol by pharmacological preconditioning with anesthetics – TRANACONDA”,** code 2463/2008, contract nr. 62 066/2008, 2008 - 2011
7. **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
8. **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, “Victor Babes” University of Medicine ad Pharmacy – coordinator, 2006 - 2009
9. **Research of Excellence Project of Partnership in Research and Development, “Computational optimization of diagnosis, surgical interventions and prognosis of cardiovascular diseases – CARDIOCOMP”,** category CEEX type P-CD, code 81/2006, “Victor Babes” University of Medicine and Pharmacy – partner, 2006 - 2009
10. **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:

- **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

- **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

Organizational / Management skills

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), Commission 12 “Medical Sciences”** (2011 – 2018)
3. **Expert Referee for the National University Research Council (NURC) of Romania - Commission 6 “Medical Sciences”** (2008 - 2010)
4. **Expert Referee for NURC (2004 – 2010) and CEEX (2005 – 2006) - project competitions**

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:

- ✓ 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

VI. Prizes

- ✓ **Prize for excellence in teaching activity within the Faculty of Medicine of the university – 2015**
- ✓ **Prizes at national and international meetings of the mentored undergraduate students/PhD students/postdocs > 50**

Academic activities

I. Academic activities/titles: Member of the University Senate (since 2012 - to date), *Rector's Counselor for Scientific Research* (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 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/employment in academic positions* in the University (since 2002-to date), Referee in *Commissions for Student Admission at the Faculty of Medicine* of the University (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*.

III. 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-

Other skills/competences

President 2016 - to date
Romanian Society of Cardiology - Founding member of the *Working Group for Experimental Cardiology* within the Romanian Society of Cardiology (since 2019).

- **Certificate of Complementary Studies in the Management of Health Services** (2014)
- **Competences in operating a computer**, using applications such as word processing packages, spreadsheets and databases (Word, Excel, PowerPoint) and statistics software (GraphPad)

Driver licence category B

Prof. MUNTEAN Mirela-Danina, MD, PhD, Dr Hab

Timișoara, November 19, 2023