



Personal information

Last name / First name
Address
E-mail
Nationality
Date of birth

Dănilă Maria-Daniela
Hărniciei Str., no. 5, sc. C, ap. 11, Timișoara, jud. Timiș
danila.maria@umft.ro
Romanian
26.07.1987

Professional experience

Period	September 2018 – to date
Position	Lecturer at the Pathophysiology Department, University of Medicine and Pharmacy “Victor Babes”, Timișoara
Main activities and responsibilities	Teaching pathophysiology to the students of the Romanian, French and English sections
Name of the employer	University of Medicine and Pharmacy “Victor Babes”, Timișoara
Type of activity/sector of activity	Education
Period	December 2017 – to date
Position	MD, Specialist in Nephrology
Main activities and responsibilities	The diagnosis and treatment of patients with renal pathology
Type of activity/sector of activity	Health
Period	September 2012 – February 2014; October 2017 – June 2018
Position	Associated Assistant Professor at the Pathophysiology Department, University of Medicine and Pharmacy “Victor Babes”, Timișoara
Main activities and responsibilities	Teaching pathophysiology to the students of the Romanian, French and English sections
Name of the employer	University of Medicine and Pharmacy “Victor Babes”, Timișoara
Type of activity/sector of activity	Education
Period	February 2014 – September 2017
Position	Assistant Professor at the Pathophysiology Department, University of Medicine and Pharmacy “Victor Babes”, Timișoara
Main activities and responsibilities	Teaching pathophysiology to the students of the Romanian, French and English sections
Name of the employer	University of Medicine and Pharmacy “Victor Babes”, Timișoara
Type of activity/sector of activity	Education

Education and training

Period	2012 - 2016
Title of qualification awarded	Doctor of Philosophy in Medicine (PhD) – graduated with “Summa cum laude” – confirmed by OMEN 3769/20.04.2017
Principal subjects/occupational skills covered	Major research fields: purinergic signaling, renal and cardiac ischemia/reperfusion, ischemic preconditioning, mitochondrial dysfunction
Name of organisation providing education and training	University of Medicine and Pharmacy “Victor Babes”, Timișoara
Period	2005 - 2011
Title of qualification awarded	Medical Doctor
Professional skills acquired	General Practitioner
Name of organisation providing education and training	University of Medicine and Pharmacy “Victor Babes”, Timișoara – Faculty of Medicine
Period	2001-2005
Name of organisation providing education and training	Colegiul Național Bănățean, Timișoara (High School)

Period 1997-2001
 Name of organisation providing education and training Școala cu clasele I-VIII, nr. 15, Timișoara (Middle School)

Period 1993-1997
 Name of organisation providing education and training Școala cu clasele I-VIII, nr. 15, Timișoara (Primary School)

Personal skills and competencies

Mother tongue(s)
 Other language(s)
 Self-assessment
 European level (*)

Romanian

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Experienced user	C1	Experienced user	C1	Experienced user	C1	Experienced user	C1	Experienced user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

Social skills and competencies

Team spirit, adaptability to diverse social environments, clear communication of ideas adapted to the level of knowledge of the discussion partner, interest to continuously improve my level of professional training, constant concern for the research activity.

Competencies in the research activity acquired through participation in internships / national or international summer schools:

- Summer School entitled L'Ecole D'Eté Francophone "Pathologie et Pharmacologie Moléculaires. Biotechnologies"** under the patronage of the Romanian Academy, the Academy of Sciences of Paris, the French Ministries of National Education, Research, Technology and Culture, 06-18.07.2009, Arad, RO
- Research training** in the Department of Pharmacology and Pharmacotherapy of the University of Szeged in order to learn the experimental study procedure of the isolated retrogradely perfused heart according to the Langendorff methodology, necessary for the evaluation of different cardioprotective strategies - 12.10 - 23.10.2009; 25.03.2013 - 08.04.2013; 23-24.04.2014 and 28-30.04.2014, Szeged, HU
- Research training** in the Department of Pharmacology and Pharmacotherapy of the University of Szeged in order to learn the experimental model of isolated and perfused kidney for the study of changes associated with acute renal ischemia, 15.07.2013 - 19.07.2013 and 22.07.2013 - 26.07.2013, Szeged, HU
- Training course during my doctoral studies** at the Institute for Biomedical Investigations of the Superior Council for Scientific Investigations, Department of Experimental Pathology, Barcelona, in order to learn the methodology of isolation of renal mitochondria, 29.08.2013 - 27.09.2013, Barcelona, ES
- Training course during my doctoral studies** at the Department EA 4245 "Cellules Dendritiques et Greffes" of the "François Rabelais" University of Tours, France, in order to finalize my studies on renal mitochondrial dysfunction as part of the doctoral project and to learn new techniques for the evaluation of the contribution of purinergic receptors in the context of ischemia / reperfusion injury (cell culture hypoxia, Western Blot). This mobility was funded through the POSDRU / 159 / 1.5 / S / 136893 project and was carried out between 03.06.2015 - 30.09.2015.

Organisational skills and competencies

Member in the team of several research / development projects:

- Projects for Young Researchers, Internal Competition of the "Victor Babeș" University of Medicine and Pharmacy, Timișoara - Program II-C3-TC-2015 - 1st place for the project "Research on the interaction of mitochondria-purinergic signaling in cardioprotection at postischemic reperfusion", 2015-2016.**
- Doctoral scholarship** within the POSDRU/159/1.5/S/136893 project for the proposal "Contributions to the elucidation of the role of mitochondrial dysfunction in the pathogenesis of acute renal disease" - 2014-2015

Technical skills and competencies

3. National Program PNIII - European and International Cooperation - Bilateral Cooperation with France, Mobility Project "New mechanisms of vascular protection mediated by purinergic signaling", no. 75 BM / 2017, period 2017-2018.

4. Hungary-Romania cross-border cooperation project 2007-2013 entitled "Twinning Project for the Development of Research Infrastructure - HURO-TWIN" code 1101/082/2.2.1, 2013-2014.

Participation in the events for young researchers organized by the Department of Pathophysiology within the project of bilateral Romanian-Hungarian cooperation entitled "Implementation of a Regional Training Network in Experimental Cardiology", category Romanian-Hungarian Joint Projects in S&T, code RO 24/2007 ID 17/2007, 2008-2009.

Short Term Scientific Mission Postdoctoral fellowship financed by the COST CA15203 action - Mitochondrial Mapping: Evolution-Age-Gender-Lifestyle-Environment - acronym MITO-EAGLE in 19.02.-03.03.2018 - Lodz, Poland, and 11.03-14.03.2019 - Maria Waldrast, Matri A. Brenner, Austria, respectively.

Experimental studies of *ex vivo* ischemia / reperfusion on the retrogradely perfused heart according to the Langerdorff technique.

High resolution respirometry studies on mitochondria isolated through the differential centrifugation technique and on platelets isolated from the peripheral blood, respectively.

Induction of hypoxia / reoxygenation on cell cultures, with subsequent analysis of cellular viability.

Vascular reactivity studies on aortic rings using the myograph.

During my IV-VI-th year of college I was part of the research team of the Department of Pathophysiology at the University of Medicine and Pharmacy, Timișoara, actively participating in the projects developed within the discipline and benefitting from training mobilities in cardioprotection research. In 2011 I finalized my bachelor's thesis "Evaluation of Cardioprotection by Pharmacological Postconditioning: Experimental Study on Langendorff Isolated Heart Model" - appreciated with the highest mark.

Good apprehension of Microsoft Office (Word, Excel, Power Point) and Adobe Reader tools and of data statistical analysis programs (GraphPad).

Prizes (first author):

2019 – Margaret Moffat Award for Best Poster in Biomedical Sciences, 6th Meeting of the European Section and 7th Meeting of North American Section of the International Academy of Cardiovascular Sciences (IACS) 2019

2014 – Second place in the Poster section, European Section Meeting of the International Academy of Cardiovascular Sciences (IACS) 2014.

2011 - Second place at the 15-th International "Medis" Congress, Timisoara

2010 - Third place at the 14-th International "Medis" Congress, Timisoara

2009 - First place at the 13-th International "Medis" Congress, Timisoara

Other awards:

2005 - First place at the County English Olympics

Scientific activity:

- First author of 4 ISI papers, 2 BDI papers, 12 papers published in abstract of which 2 in impact-factor journals

- Co-author of 13 ISI papers, 2 BDI papers, 28 papers published in abstract of which 9 in impact factor journals

- Participation in 16 congresses in the country and abroad

- Reviewer for the "Oxidative Medicine and Cellular Longevity" journal

- *h* index = 7 (ISI WOS, Core Collection)

Additional information

Affiliation to professional associations:

Member of the Romanian Society of Pathophysiology

Member of the European Renal Association - European Dialysis and Transplantation Association

Member of the research centers of the „Victor Babeș” University of Medicine and Pharmacy, Timișoara:

- Center for Translational Research and Systems Medicine
- Center for molecular research in nephrology and vascular pathology
- Research center for pharmaco-toxicological evaluations

Cambridge Certificate in English Level 2 (Grade A)

Timișoara, 28.02.2022

LIST OF SCIENTIFIC PAPERS

A. PhD Thesis

Protection against experimental ischemia/reperfusion injury: novel mechanistic insights in heart and kidney

SCIENTIFIC COORDINATORS:

- Prof.Univ.Dr. Danina MUNTEAN – “Victor Babeș” University of Medicine and Pharmacy, Timișoara, România;

- Prof.Univ.Dr. Denis ANGOULVANT - “François Rabelais” University, Tours, Franța

B. Books and chapters in books published in the last 5 years

1. Danina Muntean, Lavinia Noveanu, Oana Duicu, Adrian Sturza, **Maria Dănilă**. “*Îndreptar practic de fiziopatologie clinică*”. Editura ”Victor Babeș” Timișoara, 2016. ISBN 978-606-786-019-1
2. Lavinia Noveanu, **Maria Dănilă**. „*Modelul experimental de studiu pe inima izolată perfuzată retrograd tip Langendorff*”. Chapter in “*Volum de rezumate: Școala de vară – Cordul de la funcție la disfuncție*”, 11-16 iulie 2016, ISBN 978-606-786-011-5, Editura Victor Babeș

C. ISI/BDI papers published in the last 5 years

ISI PAPERS

1. Lelcu Theia, Bîna M. Anca, **Dănilă D. Maria**, Popoiu M. Călin, Aburel M. Oana, Arghirescu T. Smaranda, Borza Claudia, Muntean M. Danina. Assessment of Platelet Mitochondrial Respiration in a Pediatric Population: A Pilot Study in Healthy Children and Children with Acute Lymphoblastic Leukemia. *Children (Basel)*. 2021 Dec; 8(12): 1196. **IF: 2,863**
2. Oana M. Aburel, Ioana Z. Pavel, **Maria D. Dănilă**, Theia Lelcu, Alexandra Roi, Rodica Lighezan, Danina M. Muntean, Laura C. Rusu. Pleiotropic Effects of Eugenol: The Good, the Bad, and the Unknown. *Oxidative Medicine and Cellular Longevity*, vol. 2021, Article ID 3165159, 15 pages, 2021. <https://doi.org/10.1155/2021/3165159>. **IF: 6,543**
3. **Dănilă Maria-Daniela**, Piollet Marie, Aburel Oana-Maria, Angoulvant Denis, Lefort Claudie, Chadet Stéphanie, Roger Sebastien, Muntean Mirela-Danina, Ivanès Fabrice. Modulation of P2Y11-related purinergic signaling in inflammation and cardio-metabolic diseases. *Eur J Pharmacol*. 2020 Jun 5; 876:173060. **IF: 4,432**
4. Benoist L, Chadet S, Genet T, Lefort C, Heraud A, **Dănilă MD**, Muntean DM, Baron C, Angoulvant D, Babuty D, Bourguignon T, Ivanès F. Stimulation of P2Y11 receptor protects human cardiomyocytes against Hypoxia/Reoxygenation injury and involves PKCε signaling pathway. *Sci Rep*. 2019 Aug 12;9(1):11613. doi: 10.1038/s41598-019-48006-6. **IF: 4,380**
5. Petrus AT, Lighezan DL, **Dănilă MD**, Duicu OM, Sturza A, Muntean DM, Ionita I. Assessment of platelet respiration as emerging biomarker of disease. *Physiol Res*. 2019 Jun 30;68(3):347-363. **IF: 1,655**
6. **Dănilă Maria-Daniela**, Privistirescu Andreea, Duicu Oana Maria, Rațiu Corina Danina, Angoulvant Denis, Muntean Danina Mirela, Sturza Adrian. 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. **IF: 2,68**
7. Duicu OM, Privistirescu A, Wolf A, Petruș A, **Dănilă Maria-Daniela**, Rațiu CD, Muntean DM, Sturza A. Methylene blue improves mitochondrial respiration and decreases oxidative stress in a substrate-dependent manner in diabetic rat hearts. *Can J Physiol Pharmacol*. 2017

Nov;95(11):1376-1382. **IF: 1,822**

8. Sturza, A., Duicu, O., Vaduva, A., **Dănilă, M.**, Ionita, I., Munteanu, M., Muntean, D., Lighezan, R. Hydrogen Peroxide Promotes Endothelial Dysfunction by Decreasing Nitric Oxide Bioavailability in Experimental Diabetes Mellitus. *Revista de Chimie*, 2016, 67(11):0034-7752. **IF: 1,232**
9. Danina M. Muntean, Adrian Sturza, **Maria D. Dănilă**, Claudia Borza, Oana M. Duicu, Cristian Mornoș. The Role of Mitochondrial Reactive Oxygen Species in Cardiovascular Injury and Protective Strategies. *Oxidative Medicine and Cellular Longevity*, 2016, 2016:8254942, 19 pag., **IF:4,593**

D. Papers published in abstract in the last 5 years

PAPERS PUBLISHED IN ABSTRACT IN ISI JOURNALS

1. **Dănilă MD.**, Sturza A., Petrus A., Duicu O., Angoulvant D., Muntean D. Activation of purinergic receptors P2Y11 alleviated endothelial dysfunction and oxidative stress in an experimental model of acute inflammation. *Current Research: Cardiology*, Autumn 2016, Vol. 3, No. 3, p. 106, **IF: 0.35**
3rd European Section Meeting of the International Academy of Cardiovascular Sciences (IACS), 2016, Marseille, France, October 1-4, 2016. Online ISSN: 2368-0512
2. Duicu O., Petrus A., Sturza A., Kiss L., **Dănilă MD.**, Baczko I., Jost N., Muntean D. Novel synthetic benzopyran derivatives enhance endothelial function and reduce oxidative stress in vascular preparations. *Current Research: Cardiology*, Autumn 2016, Vol. 3, No. 3, p. 107, **IF: 0.35**
3rd European Section Meeting of the International Academy of Cardiovascular Sciences (IACS), 2016, Marseille, France, October 1-4, 2016. Online ISSN: 2368-0512
3. Muntean D., Sturza A., Petrus A., Duicu O., Kiss L., **Dănilă MD.**, Baczko I., Jost N., Modulation of vascular function and ROS production by novel synthetic benzopyran analogues in diabetes mellitus. *Cardiovascular Research*, volume 111, Issue suppl 1, **IF: 5.465**
Abstract Book of: Frontiers in CardioVascular Biology 2016, Florence 8-10 July Biennial Congress of the ESC Council on Basic Cardiovascular Science, p. S99. ISSN 0008-6363. EISSN 1755-3245
4. Duicu O., Sturza A., Wolf A., Privistirescu A., **Dănilă M.**, Muntean D. Methylene blue modulates mitochondrial function and monoamine oxidases-related ROS production in diabetic rat hearts. *Cardiovascular Research*, volume 111, Issue suppl 1, **IF: 5.465**
Abstract Book of: Frontiers in CardioVascular Biology 2016, Florence 8-10 July Biennial Congress of the ESC Council on Basic Cardiovascular Science, p. S110. ISSN 0008-6363. EISSN 1755-3245

PAPERS PUBLISHED IN ABSTRACT IN INTERNATIONAL SCIENTIFIC MEETINGS

5. Pop Ruben, Noveanu Lavinia, **Dănilă Maria**, Muntean Danina. Acute inhibition of monoamine oxidases potentiates postischemic functional recovery induced by ischemic preconditioning in isolated rat hearts. Abstract's Journal No. VIII, p.63
The XIXth International Congress for Medical Students and Young Doctors MEDIS, 3-6 March 2016, Timisoara, Romania. ISSN 1843-9128
6. Muntean D., **Dănilă M.**, Petrus A., Duicu O., Sturza A., Angoulvant D. Activation of purinergic receptors P2Y11 improves vascular function in lipopolysaccharide-induced inflammation. Programme Book, p. 22.
Joint International Meeting of the German Society for Microcirculation and Vascular Biology (GfMVB) and the Collaborative Research Centre 834 (SFB 834), 26-28 September 2016, Frankfurt, Germany

7. Maria Baleanu, **Maria Dănilă**, Adrian Sturza, Danina Muntean. Modulation of vascular function via purinergic P2Y₁₁ receptor signaling in acute experimental inflammation. Abstract's Journal No. IX, p.93.
The XXth International Congress for Medical Students and Young Doctors MEDIS, 16-19 March 2017, Timisoara, Romania. ISSN 1843-9128
8. Rațiu Corina, Muntean Paul, Sturza Adrian, Văduva Adrian, **Dănilă Maria**, Duicu Oana, Muntean Danina. Monoamine oxidase B-derived hydrogen peroxide promotes early endothelial dysfunction in experimental diabetes. Programme Book.
IV European Section Meeting of IACS (International Academy of Cardiovascular Sciences), September 28-30, 2017, Pecs, Hungary
9. O. Duicu, A. Sturza, M. Piollet, **M. Dănilă**, D. Angoulvant, D. Muntean. Activation of purinergic receptor P2Y₁₁ improves vascular function after angiotensin II exposure in rat aorta. Program and Book of abstracts.
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, Smolenice, ISBN: 978-80-224-1649-8
10. **Dănilă MD**, Aburel OM, Muntean DM. Acute inhibition of monoamine oxidase mitigates the protective effects of renal preconditioning in rats. - **lucrare premiată**
Abstract Book. 6th Meeting of the European Section and 7th Meeting of the North American Section of the International Academy of Cardiovascular Sciences (IACS) 2019, 11-14.09.2019 Vrnjacka Banja, Serbia. ISBN 978-86-7760-136-2.

PAPERS PUBLISHED IN ABSTRACT IN NATIONAL SCIENTIFIC MEETINGS WITH INTERNATIONAL PARTICIPATION

11. Piollet M., Rațiu C., **Dănilă M.**, Sturza A., Muntean D., Angoulvant D., Duicu O. Activation of purinergic receptors P₂Y₁₁ improves vascular function in rat aorta after angiotensin II stimulation. Clujul Medical (90/2017, suppl 5), p-ISSN 1222-2119: S18
„The Conference of the Romanian Society of Pathophysiology”, Cluj Napoca, Romania, 7-9 septembrie 2017.

PAPERS PUBLISHED IN ABSTRACT IN NATIONAL SCIENTIFIC MEETINGS

12. **Dănilă MD**, Aburel OM, Sturza A, Piollet M, Chadet S, Ivanes F, Angoulvant D, Muntean D. Purinergic signaling modulation in cardiovascular pathologies: an emerging field with therapeutic potential.
Fiziologia (Physiology) 2019 Supplement 1. The 31st National Conference of the Romanian Physiology Society – Physiology Today: Innovation, Integration, Translation; 25-26.10.2019, Timișoara.

- Selection of papers published in abstract in conference issues

1. **Dănilă MD.**, Sturza A., Petrus A., Duicu O., Angoulvant D., Muntean D. Activation of purinergic receptors P2Y₁₁ alleviated endothelial dysfunction and oxidative stress in an experimental model of acute inflammation. *Current Research: Cardiology*, Autumn 2016, Vol. 3, No. 3, p. 106, **IF: 0.35**
3rd European Section Meeting of the International Academy of Cardiovascular Sciences (IACS), 2016, Marseille, France, October 1-4, 2016. Online ISSN: 2368-0512
2. **Dănilă MD**, Aburel OM, Muntean DM. Acute inhibition of monoamine oxidase mitigates the protective effects of renal preconditioning in rats.
Abstract Book. 6th Meeting of the European Section and 7th Meeting of the North American

Section of the International Academy of Cardiovascular Sciences (IACS) 2019, 11-14.09.2019 Vrnjacka Banja, Serbia. ISBN 978-86-7760-136-2.

3. **Dănilă MD**, Aburel OM, Sturza A, Piollet M, Chadet S, Ivanes F, Angoulvant D, Muntean D. Purinergic signaling modulation in cardiovascular pathologies: an emerging field with therapeutic potential. *Fiziologia (Physiology) 2019 Supplement 1. The 31st National Conference of the Romanian Physiology Society – Physiology Today: Innovation, Integration, Translation; 25-26.10.2019, Timișoara.*
4. Duicu O., Petrus A., Sturza A., Kiss L., **Dănilă MD.**, Baczko I., Jost N., Muntean D. Novel synthetic benzopyran derivatives enhance endothelial function and reduce oxidative stress in vascular preparations. *Current Research: Cardiology*, Autumn 2016, Vol. 3, No. 3, p. 107, **IF: 0.35**
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6. Duicu O., Sturza A., Wolf A., Privistirescu A., **Dănilă M.**, Muntean D. Methylene blue modulates mitochondrial function and monoamine oxidases-related ROS production in diabetic rat hearts. *Cardiovascular Research*, volume 111, Issue suppl 1, **IF: 5.465**
Abstract Book of: Frontiers in CardioVascular Biology 2016, Florence 8-10 July Biennial Congress of the ESC Council on Basic Cardiovascular Science, p. S110. ISSN 0008-6363. EISSN 1755-3245

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