Curriculum vitae

Personal information

Surname / First name	**MIOC Alexandra Teodora**
Address	Timișoara, Timiș County, Romania
Email	alexandra.mioc@umft.ro
Nationality	Romanian

Professional experience

Period	
Job title	**30.09.2024 – present**
Main activities and responsibilities	**Professor**
Name and address of employer	Faculty of Pharmacy, Victor Babeș University of Medicine and Pharmacy Timișoara,
Type of business or sector	Department of Pharmacology, Physiology and Pathophysiology, 2 Eftimie Murgu Square, Timișoara, Romania Education / Higher education
Period	
Job title	**03.10.2022 – 29.09.2024**
Main activities and responsibilities	**Associate Professor**
Name and address of employer	Faculty of Pharmacy, Victor Babeș University of Medicine and Pharmacy Timișoara,
Type of business or sector	Department of Anatomy, Physiology and Pathophysiology, 2 Eftimie Murgu Square, Timișoara, Romania Education / Higher education
Period	
Job title	**15.02.2021 – 02.10.2022**
Main activities and responsibilities	**Lecturer**
Name and address of employer	Teaching and research activities
Type of business or sector	Faculty of Pharmacy, Victor Babeș University of Medicine and Pharmacy Timișoara, Department of Anatomy, Physiology and Pathophysiology, 2 Eftimie Murgu Square, Timișoara, Romania Education / Higher education
Period	
Job title	**17.02.2014 – 14.02.2021**
Main activities and responsibilities	**Assistant Professor**
Name and address of employer	Teaching and research activities
Type of business or sector	Faculty of Pharmacy, Victor Babeș University of Medicine and Pharmacy Timișoara, Department of Anatomy, Physiology and Pathophysiology, 2 Eftimie Murgu Square, Timișoara, Romania Education / Higher education

Education and training

Period	**2024 – present**
Qualification / degree awarded	**Habilitation certificate in the field of Pharmacy doctoral studies, Ministerial Order No. 3232 of 22 January 2024**
Name and type of educational institution	Victor Babeș University of Medicine and Pharmacy Timișoara
Period	**2016 – present**
Qualification / degree awarded	**PhD in Medicine, grade: Excellent, Order of the Ministry of National Education No. 3148 of 30 January 2017; Medical Sciences, field of Medicine**
Principal subjects / occupational skills covered	Pathophysiology / Research activity
Name and type of educational institution / training provider	Victor Babeș University of Medicine and Pharmacy Timișoara, Department of Pathophysiology

Period	**20.11.2023 – 21.12.2023**
Qualification / degree awarded	**Public speaking trainer**
Name and type of educational institution / training provider	APSAP Training Centre Foundation. COR code 242401; registration no. 40/4008/24.09.2020 in the National Register of Adult Vocational Training Providers. Course accredited by the Ministry of Labour and the Ministry of Education.
Period	**2013–2016**
Qualification / degree awarded	**PhD candidate**
Principal subjects studied / occupational skills acquired	Medical sciences Pathophysiology / Research activity
Name and type of educational institution / training provider	Victor Babeș University of Medicine and Pharmacy Timișoara, Department of Pathophysiology, Medicine II, 14 Splaiul Tudor Vladimirescu, Timișoara 300173, Romania
Period	**2008–2013**
Qualification / degree awarded	**Pharmacist**
Name and type of educational institution	Faculty of Pharmacy, Victor Babeș University of Medicine and Pharmacy Timișoara, 2 Eftimie Murgu Square, 300041 Timișoara, Romania

Social skills and competences

Ability to acquire new information and skills; strong synthesis and analytical skills; ability to work in national and international teams; negotiation and communication skills; team spirit; sociable, dynamic and creative.

Research and higher education skills acquired through participation in national and international courses and training:

1. Training course: "Scientific Research Management", Center for Health Research Association, 16 September 2014, Victor Babeș University of Medicine and Pharmacy Timișoara, Romania.
2. Training course: "Modules on cross-cutting topics", Center for Health Research Association, 18–19 November 2014, Victor Babeș University of Medicine and Pharmacy Timișoara, Romania.
3. Doctoral research mobility under POSDRU project No. 159/1.5/S/136893. Host institution: University of Szeged, Department of Pharmacology and Pharmacotherapy, Szeged, Hungary (1 June–30 September 2015).
4. Participation in the workshop "Translational Research in Mitochondrial Disease – From *Molecule to Man", 16 October 2015, Timișoara, Romania.*
5. Participation in the summer school "Mitochondrial Physiology – From Organelle to Organism", 17–
21 August 2015, Copenhagen, Denmark.
6. Participation in the workshop "Integrating Doctoral Schools into European Networks", 27–28 May 2015, Timișoara, Romania.
7. International specialisation mobility: Short-Term Scientific Mission (STSM) under COST Action TD1304, Department of Biochemistry, Radboud Institute for Molecular Life Sciences, Radboud University Medical Center, Nijmegen, the Netherlands (1 September–30 October 2016; COST-STSM-TD1304-30794).
8. "MCQ" workshop, Victor Babeș University of Medicine and Pharmacy Timișoara, 28–29 July 2018, Timișoara, Romania.
9. Workshop: "New trends in pharmaceutical research", 31 March 2023, Timișoara, Romania.
10. Hands-on workshop: "3D Epidermal Model Workshop – Skin Irritation Test, New trends in preclinical research", in accordance with OECD Test Guideline 439, organised by MatTek, 13–15 December 2023, Timișoara, Romania.

Organisational skills and competences

Teamwork, excellent communication, planning, and effective management of time and resources, demonstrated through participation as:

Project Director:

1. Young Researchers Project (PII-C4-TC-2016): "Screening the bioenergetic functional reserve in peripheral blood of patients with malignant haematological diseases", awarded through the internal competition of Victor Babeș University of Medicine and Pharmacy Timișoara, 2016.

2. Research Projects for Stimulating Young Independent Teams (TE): "The mitochondrion as a therapeutic target in cancer: synthesis and biological evaluation of new triterpene derivatives of decualinium with antiproliferative activity", project code PN-IV-P2-2.1-TE-2023-0717, funded by UEFISCDI.

Project team member:

1. Hungary–Romania Cross-Border Cooperation Programme 2007–2013: "Twinning Project for the Development of the Research Infrastructure – HURO-TWIN", code 1101/082/2.2.1, 2013–2015.
2. Exploratory Research Projects (IDEI): "Evaluation of cardioprotective effects of K-ATP channel modulation", code PCE-2012-4-0512, 2013–2016.
3. UMFVBT Programme for Partnerships in Innovative Fundamental Research, Grant UMFVBT PIII-C2-PCFI-2015/2016: "New pharmaceutical approaches to modulating the bioavailability of flavonoids with chemopreventive potential against malignant melanoma" (FLAVOFORM).
4. Romania–France Brâncuși–Hubert Curien Cooperation Mobility Programme: "Novel Insights in Vascular Protection Mediated by Purinergic Signaling" (PUR-VASC-PROTECT), project No. 75 BM, 2017–2018.
5. UMFVBT Programme for Partnerships in Innovative Fundamental Research, Grant UMFVBT PIII-C5-PCFI-2017/2018: "The role of vitamin D in modulating vascular and mitochondrial function in adipose tissue in animal models and humans" (VASC-ADIPO-MIT), 2017–2018.

Doctoral scholarship awarded through a competitive process under POSDRU project No. 159/1.5/S/136893: "Strategic partnership to improve the quality of scientific research at medical universities through doctoral and postdoctoral scholarships – DocMed.Net 2.0".

Member of the Research Center for Experimental Pharmacology and Drug Design (X-PharmDesign), directed by Prof. Codruța Șoica.

Collaborator at the Center for Translational Research and Systems Medicine (CERT-MEDS), directed by Prof. Danina Muntean.

Technical and coordination skills and competences

I. Teaching competencies:

Books in Anatomy, Physiology and Pathophysiology (in Romanian and English) and in Pharmacology:

1. Anatomy, Physiology and Pathophysiology of the Cardiovascular, Endocrine, Skeletal, Muscular, Digestive and Renal Systems. G. Savoiu, C. Borza, C. Șerban, A. Petruș. Eurobit Publishing House, Timișoara, 2014.
2. Anatomy, Physiology and Pathophysiology: Course Notes for Pharmacy Technician Students. A. Mioc, G. Savoiu-Balint. Victor Babeș Publishing House, Timișoara, 2021.
3. Anatomy, Physiology and Pathophysiology: Course Notes for Pharmacy Students. A. Mioc, G. Savoiu-Balint. Victor Babeș Publishing House, Timișoara, 2023. ISBN 978-606-786-315-4.
4. Anatomy, Physiology and Pathophysiology: Course Notes for Faculty of Pharmacy Students. A. Mioc, G. Savoiu-Balint. Victor Babeș Publishing House, Timișoara, 2023. ISBN 978-606-786-316-1.
5. Pharmacology – Pharmacotherapy: Course Notes, Vol. I. Codruța Șoica, Roxana Negrea Ghiulai, Alexandra Mioc, Liana Suciu, Maria Cristiana Mabda. Victor Babeș Publishing House. ISBN 978-606-786-370-3.

Scientific work: Book chapter "Modulation of mitochondrial respiratory function as a cardioprotective strategy during post-ischaemic reperfusion", in Classical and Modern Pathophysiology: An Integrative Approach to Education and Research, ed. Gr. T. Popa, edited by Prof. Magda Bădescu, Iași, 2015, pp. 107–112. ISBN 978-606-544-310-5.

Lecturer in postgraduate courses: "The role of biochemical and functional markers of endothelial dysfunction in patients with cardiovascular diseases", Victor Babeș University of Medicine and Pharmacy Timișoara, 2021.

Supervision of student volunteers in the "Volunteering in Academic Development" (VADA) programme, Victor Babeș University of Medicine and Pharmacy Timișoara.

Updating, improving and modernising course materials and practical-work materials.

II. Medical competencies:
Pharmacist (since 2013)
Doctor of Medicine (since 2016)
Scientific activity:
68 full-length papers in journals with an impact factor and 1 paper in a database-indexed journal (first author).
48 papers published as abstracts at national and international scientific meetings.
Supervision of student papers presented at scientific meetings.

Research interests:
Cardioprotective strategies against ischaemia/reperfusion-induced injury.
Mitochondria as effectors and therapeutic targets in protection during post-ischaemic myocardial reperfusion.
Mitochondria as effectors and therapeutic targets of natural compounds with antitumour activity.
Natural compounds with antitumour and anti-ageing activity.
Synthetic and semisynthetic compounds with diverse biological activities.

Other skills and competences

- Studies of isolated heart mitochondria from mice, rats and dogs (high-resolution respirometry; spectrofluorimetry to assess calcium-retention capacity and oxidative stress).
- Studies of permeabilised fibres from heart and adipose tissue of rats and mice (high-resolution respirometry).
- Langendorff studies on isolated rodent hearts.
- In vitro studies on tumour cell lines: cell culture, mitochondrial respiration, Western blotting, immunofluorescence and apoptosis assays.

International and national awards

1. Best Poster – Cardiology Section Winner, 25th European Students' Conference "Rethinking Medical Research – How Do We Achieve Innovation?", 17–20 September 2014, Charité, Berlin, Germany; "Characterization of two novel pharmacological ATP-sensitive potassium channel modulators in isolated rat heart mitochondria."
2. Elizabeth Roth Poster Award Session, Second Prize, European Section Meeting of the International Academy of Cardiovascular Sciences, 8–10 October 2015, Belgrade, Serbia; "Further Insights into the Mitochondrial Effects of Synthetic Benzopyran Analogues."
3. First Prize, Poster Presentation Section, Conference of the Romanian Society of Pathophysiology, 7–9 September 2017, Cluj-Napoca, Romania; "Vascular protection mediated by ATP-dependent channels in experimental diabetes."
23 papers received national awards through the PRECISI programme.

Professor Alexandra Teodora Mioc

22.10.2026