

PERSONAL INFORMATION

MIOC ALEXANDRA TEODORA

Timisoara, Jud Timis, Romania

0256/204476

alexandra.mioc@umft.ro

Nationality Romanian

WORK EXPERIENCE

From 30.09.2024 - to present

Professor

University of Medicine and Pharmacy "Victor Babes" Timisoara, Romania, Faculty of Pharmacy, Department II, Pharmacology, Physiology, Physiopathology.

Teaching and research activities

From 03.10.2022 - 29.02.2024

Associate Professor

University of Medicine and Pharmacy "Victor Babeş" Timişoara, Romania, Faculty of Pharmacy, Department I, Anatomy, Physiology and Pathophysiology.

· Teaching and research activities

From 15.02.2021 - to 02.10.2022

University of Medicine and Pharmacy "Victor Babes" Timisoara, Romania, Faculty of Pharmacy, Department I, Anatomy, Physiology and Pathophysiology.

Teaching and research activities

From 17.02.2014 - to 14.02.2021

Teaching assistant

University of Medicine and Pharmacy "Victor Babeş" Timişoara, Romania, Faculty of Pharmacy, Department I, Anatomy, Physiology and Pathophysiology.

Teaching and research activities

EDUCATION AND TRAINING

2023 - present

Clinical Pharmacy Specialist

2020-2023

Resident - Clinical Pharmacy

"Pius Brînzeu" County Emergency Clinical Hospital, Timisoara, Romania

From 2016 - present

PhD

University of Medicine and Pharmacy "Victor Babes" Timisoara, Faculty of Medicine, Department III/ Functional Sciences, Pathophysiology, Order of the Ministry of National Education, Nr. 3148 -30.01.2017

20.11.2023 - 21.12.2023

Public speaker - Trainer

APSAP Training Centre Foundation. COR Code 242401, 40/4008/24.09.2020, course accredited by the Ministry of Education

From 01.10.2013 - to 07.2016

PhD student

University of Medicine and Pharmacy "Victor Babes" Timisoara, Faculty of Medicine, Department III/ Functional Sciences, Pathophysiology - under the coordination of Prof. Univ. Dr. Danina M. MUNTEAN

Research activities

From 2008- to 2013

Pharmacist

University of Medicine and Pharmacy "Victor Babes" Timisoara, Romania, Faculty of Pharmacy

PERSONAL SKILLS



Communication skills

 High capacity to assimilate new information and skills, negotiation and communication skills, team spirit, sociable, dynamic, creative, ambitious, adaptable, efficient.

Research activity competences aquired through the participation in national/international trainings:

- 1. Course: "Scientific Research Management", Association Center for Health Research. 16.09.2014, University of Medicine and Pharmacy "Victor Babeş" Timişoara, Romania.
- 2. Course: "Modules on horizontal themes", Association Center for Health Research. 18-19.11.2014, University of Medicine and Pharmacy "Victor Babes" Timisoara, Romania.
- 3. Research mobility for doctoral studies within the POSDRU/159/1.5/S/136893 project. Host institution: University of Szeged, Department of Pharmacology and Pharmacotherapy, Szeged, Hungary. 01.06 30.09. 2015
- Summer School: "Mitochondrial Physiology From Organelle to Organism". 17-21 august 2015, Copenhagen, Denmark
- Workshop: "Translational Research in Mitochondria Disease- From Molecule to Man", 16 octombrie 2015, Timisoara, România.
- Workshop: "Integrarea Scolilor Doctorale în Retelele Europene". 27- 28 mai 2015, Timisoara, România.
- Short Term Scientific Mission (STSM) COST project-TD1304 în Biochemistry
 Department, Radboud Institute for Molecular Life Sciences; Radboud University Medical
 Center, Nijmegen, The Netherlands (01.09.2016 30.10.2016, COST-STSM-TD130430794)
- "MCQ" worshop. "Victor Babeş" University of Medicine and Pharmacy Timişoara, 28-29.07.2018, Timişoara, România.
- Workshop: "New trends in pharmaceutical research". 31.03.2023, Victor Babeş" University of Medicine and Pharmacy Timisoara, Romania
- Hands-on workshop: "3D Epidermal Model Workshop Skin Irritation Test, New trends in preclinical research", according to OECD TG 439, organized by MatTek. 13-15.12.2023, Timisoara, Romania

Organisational / managerial

Ability to work in a team, very good communication skills, planning, time management and resource management skills. Demonstrated organizational skills and competences by participation as:

Project manager:

- Internal Grant "VICTOR BABEŞ" University of Medicine and Pharmacy, Timişoara, 2016. (PII-C4-TC-2016): "Screening-ul rezervei funcționale bioenergetice în sângele periferic la pacienții cu hemopatii maligne".
- 2. PN-IV-P2-2.1-TE-2023-0717, Mitochondria as a therapeutic target in cancer: synthesis and biological evaluation of new triterpene dequalinium derivatives with antiproliferative effect.

• Project team member in:

- **1.** Hungary-Romania Cross-Border Co-operation Programme "Twinning Project for the Development of the Research Infrastructure HURO-TWIN", project no. 1101/082/2.2.1, 2013-2015 2.
- **2.** Projects of Exploratory Research I (IDEI): "Evaluation of cardioprotective effects of K-ATP channels modulation" code PCE-2012-4-0512, 2013-2015
- **3.** UMFVBT Institutional Grant Innovative fundamental research projects, "New pharmaceutical approaches for modulating the bioavailability of potential chemopreventive flavonoids for malign melanoma" FLAVOFORM, project no. PIII-C1-PCFI 2015/2016
- **4.** Romania-France Cooperation Mobilities Programme "Brancusi-Hubert Curien", "Novel Insights in Vascular Protection Mediated By Purinergic Signaling" PUR-VASC-PROTECT, project no. 75 BM, 2017-2018
- **5.** Internal Grant "VICTOR BABEŞ" University of Medicine and Pharmacy, PIII-C5-PCFI-2017/2018: "Rolul vitaminei D în modularea funcției vasculare și mitocondriale la nivelul tesutului adipos pe model animal și la om", 2017-2018.

Competition winner of a PhD grant within the POSDRU 159/1.5/S/136893 (2014-2015) project: "Parteneriat strategic pentru creșterea calității cercetării științifice din universitățile medicale prin acordarea de burse doctorale și postdoctorale – DocMed.Net_2.0"

Research team member: Research Center for Experimental Pharmacology and Drug Design" (X-PharmDesign), center director Prof.Dr. Codruta Soica

Research collaborator: Center for Translational Research and Systems Medicine (CERT-MEDS), center director Prof.Dr. Danina Muntean





Computer skills

Microsoft Windows Office (Word, Excel, PowerPoint), GraphPad

Ease of learning new programs for data management and statistical analysis

Technical skills

- High resolution respirometry studies (isolated animal heart mitochondria, permeabilised fibers, adipose tissue, thrombocites)
- Spectrofluorimetry: calcium retention capacity, oxidative stress
- Langendorff-type studies on rodent-isolated hearts
- In vitro studies on normal and cancer cell lines: cell culture, mitochondrial respiration, Western Blot

Teaching skills and abilities

Communication, teamwork, adaptability, time management, critical thinking, organization problem solving

Published books:

- Anatomia, fiziologia si fiziopatologia sistemelor: cardiovascular, endocrin, osos, muscular, digestiv, renal. Savoiu G., Borza C., Serban C., Petrus A., Editura Eurobit, Timisoara, 2014.
- Anatomie, fiziologie si fiziopatologie. Note de curs pentru Asistentii de farmacie. Mioc A., Savoiu-Baling G. Editura Victor Babes, Timisoara, 2021.
- Anatomy, Physiology and Pathophysiology Course notes for pharmacy students. Mioc A., Savoiu-Balint G. Editura Victor Babes, Timisoara, 2023. ISBN 978-606-786-315-4.
- Anatomie, fiziologie, fiziopatologie. Note de curs pentru studenții facultății de farmacie. Mioc A., Savoiu-Balint G. Editura Victor Babes, Timisoara, 2023. ISBN 978-606-786-316-1.
- Farmacologie Farmacoterapie. Note de curs. Vol I. Codruţa Şoica, Roxana Negrea Ghiulai, Alexandra Mioc, Liana Suciu, Maria Cristiana Mabda. Editura Victor Babes, ISBN 978-606-786-370.3

Book chapters:

 "Modularea functiei respiratorii mitocondriale ca strategie cardioprotectoare la reperfuzia postischemica". Clasic si modern in fiziopatologie: o abordare integrative in educatie si cercetare. Ed. "Gr.T. Popa", sub red.: Prof. Univ. Dr. Magda Badescu, lasi, 2015. p. 107-112, ISBN: 978-606-544-310-5.

Postgraduate courses – lecturer:

 Rolul markerilor biochimici şi funcţionali ai disfuncţiei endoteliale la pacienţii cu boli cardiovasculare. Universitatea de Medicina si Farmacie "Victor Babes" Timisoara. 2021

Areas of interest:

- Cardioprotective strategies against ischemia/reperfusion-induced lesions;
- Mitochondria as effector and therapeutic target of post-ischemic myocardial reperfusion protection.
- Mitochondria as effector and therapeutic target of natural compounds with antitumor activity
- Natural compounds with antitumor activity

Other skills and abilities

- Studies on mitochondria isolated from hearts, from mice/rats/dogs (high-resolution respirometry, spectrofluorimetry: calcium retention capacity, oxidative stress);
- Studies on permeabilized fibers from hearts and adipose tissue from rats/mice (high-resolution respirometry);
- · Langendorff-type studies on isolated rodent hearts;
- In vitro studies on tumor cell lines: cell cultures, mitochondrial respiration, Western Blot, luminofluorescence, apoptosis tests

International and national awards

- Best poster Winner of the Cardiology Section; The 25th European Students' Conference "Rethinking Medical Research – How Do We Achieve Innovation?"; 17-20 September 2014, Charité - Berlin, Germania; Characterization of two novel pharmacological ATP-Sensitive Potassium channels modulators in isolated rat heart mitochondria.
- Elizabeth Roth Poster Award Session. II Prize. European Section Meeting of the International Academy of Cardiovascular Sciences, 8-10 October 2015, Belgrade, Republic of Serbia; Further Insights into the Mitochondrial Effects of Synthetic Benzopyran Analogues.
- First prize Poster presentation. Conferința Societății Române de Fiziopatologie, 7-9 Septembrie 2017, Cluj-Napoca, Romania; Vascular protection mediated by atp-dependent channels in experimental diabetes.
- 23 papers awarded at national level through the PRECISI program..