

PERSONAL INFORMATION

MIOC ALEXANDRA TEODORA

📍 Timisoara, Jud Timiș, Romania

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Nationality Romanian

WORK EXPERIENCE

From 30.09.2024 - to present

Professor

University of Medicine and Pharmacy "Victor Babeș" Timișoara, Romania, Faculty of Pharmacy, Department II, Pharmacology-Pharmacotherapy.

Teaching and research activities

From 03.10.2022 – 29.02.2024

Associate Professor

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

- Teaching and research activities

From 15.02.2021 - to 02.10.2022

Lecturer

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

- Teaching and research activities

EDUCATION AND TRAINING

From 2016 - present

PhD

University of Medicine and Pharmacy "Victor Babeș" Timișoara, 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 Center 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 Babeș" Timișoara, 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 Babeș" Timișoara, 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 acquired 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 Babeș" Timișoara, Romania.
2. Course: "Modules on horizontal themes", Association Center for Health Research. 18-19.11.2014, University of Medicine and Pharmacy "Victor Babeș" Timișoara, 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
4. **Summer School: "Mitochondrial Physiology - From Organelle to Organism"**. 17-21 august 2015, Copenhagen, Denmark
5. **Workshop: "Translational Research in Mitochondria Disease- From Molecule to Man"**, 16 octombrie 2015, Timișoara, România.
6. **Workshop: "Integrarea Scolilor Doctorale în Retelele Europene"**. 27- 28 mai 2015, Timișoara, România.
7. **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-TD1304-30794)
8. **"MCQ" workshop.** "Victor Babeș" University of Medicine and Pharmacy Timișoara, 28-29.07.2018, Timișoara, România.
9. **Workshop:** „New trends in pharmaceutical research”. 31.03.2023, Victor Babeș” University of Medicine and Pharmacy Timișoara, Romania
10. **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, Timișoara, Romania

Organisational / managerial skills

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 BABEȘ" University of Medicine and Pharmacy, Timișoara, 2016. (PII-C4-TC-2016): "Screening-ul rezervei funcționale bioenergetice în sângele periferic la pacienții cu hemopatii maligne".

▪ 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 BABEȘ" University of Medicine and Pharmacy, PIII-C5-PCFI-2017/2018: "Rolul vitaminei D în modularea funcției vasculare și mitocondriale la nivelul țesutului 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), Pharmec, 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, thrombocytes)
- 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.

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, Iasi, 2015. p. 107-112, ISBN: 978-606-544-310-5.

Postgraduate courses – lecturer:

- Rolul markerilor biochimici și funcționali ai disfuncției endoteliale la pacienții 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, Germany; 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..