

## PERSONAL INFORMATION



## Ionela Andreea Anechitei

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## WORK EXPERIENCE

- 2010–Present **Laboratory chemist**  
"Victor Babes" University of Medicine and Pharmacy - Pathophysiology Department, 14 Tudor Vladimirescu Str., 1st floor, 300173, Timisoara (Romania)Te
- 2014–2023 **Teaching activity (AMG and BFKT students)**  
"Victor Babes" University of Medicine and Pharmacy - Pathophysiology Department, 14 Tudor Vladimirescu Str., 1st floor, 300173, Timisoara (Romania)

## EDUCATION

- 2014–2018 **Medical Doctor**  
"Victor Babes" University of Medicine and Pharmacy, Timisoara (Romania)
- 2010–2012 **Master degree - Molecular biology and biotechnologies**  
"Victor Babes" University of Medicine and Pharmacy, Timisoara (Romania)
- 2004–2009 **Engineering of Inorganic Substances and Environmental Protection**  
The Polytechnic University of Timisoara (Romania)

## PERSONAL SKILLS

- Computer skills**
- A good knowledge of Microsoft Office tools and the GraphPad statistics program.
- Skills acquired in the workplace**
- Study of mitochondrial dysfunction by high resolution respirometry
  - Study of ischemia / reperfusion on isolated perfused heart Langendorff type with evaluation of the size of the experimental infarct area by computerized planimetry

## SCIENTIFIC ACTIVITY

- Member**
- Member of Center for Translational Research and Systems Medicine of the "Victor Babes" University of Medicine and Pharmacy, Timisoara (Romania), <https://erris.gov.ro/Center-for-Translational-Res>
  - Member of Romanian Society of Pathophysiology
- Prizes**
- PRIZE FOR POSTER PRESENTATION, Days of the University of Medicine and Pharmacy "Victor Babeş" Timișoara, 15 December 2017, Timișoara, Romania
  - FIRST PRIZE FOR POSTER PRESENTATION, *Methylene blue improves vascular function in*

*experimental diabetes*. From the Conference of the Romanian Society of Pathophysiology, 7-9 September 2017, Cluj-Napoca, Romania.

- PRIZE FOR POSTER PRESENTATION, *Beneficial effects of methylene blue on vascular function in experimental diabetes*, Days of the University of Medicine and Pharmacy "Victor Babeş" Timișoara, 14 December 2017, Timișoara, Romania

## Conferences

Participation with poster presentation:

- National Congress of Romanian Society of Pathophysiology with International Participation, "CLASIC ȘI MODERN ÎN FIZIOPATOLOGIE - O abordare integrativă în educație și cercetare", 7 – 10 May 2015, Iași, România
- "Victor Babeş" University Days, 15 December 2016, Timișoara, România
- Conference of Romanian Society of Pathophysiology, 7-9 September 2017, Cluj-Napoca, România.
- "Victor Babeş" University Days, 14 December 2017 în Timișoara, România

## Projects

Competences in the experimental fundamental research activity acquired through:

- **Participation as a member in the teams of the following international and national research projects:**

1. National Project - Parteneriat "Formulări de avangardă pe bază de eugenol nanocapsulat cu adresabilitate în medicina dentară" - NANOEUCAPS, cod PN-III-P2-2.1-BG-2016-0455, contract 122BG - 03/10/2016.

2. National Project "O abordare epitoxicogenomica hepatotoxicitatii cadmiului: un model gasteropod" - EPICAD, cod PN-II-RU-TE2014-4-0776-TE18

3. International Project - Hungary-Romania Cross-Border Cooperation Project "Twinning Project for the Joint Development of the Research Infrastructure"- HURO-TWIN, cod 1101/082/2.2.1, 2013-2014

4. International Project - Hungary-Romania Cross-Border Cooperation Project "Implementation of a Regional Project for Translational Medical Research Concerning Diseases with High Impact in Population – HURO TRANSMED", cod HURO/0901/137/2.2.2, 2011-2012

5. International Project - Hungary-Romania Cross-Border Cooperation Project "Development of the infrastructure for a pole of excellence in cardiovascular research – HURO-CARDIO-POL", cod HURO/0802/011\_AF, 2010-2012

6. National Project - Parteneriate în domenii prioritare, "Strategii cardioprotectoare la reperfuție – mitocondria ca multipla tinta terapeutică" - CARDIO-MITO-PROT, cod 2560/2008, contract 42122/2008, 2008-2011.

- **Participation in training mobilities within the Romanian-Hungarian cross-border cooperation project** "Twinning Project for the Joint Development of the Research Infrastructure"- HUROTWIN, cod 1101/082/2.2.1. Institutia gazda: University of Szeged, Faculty of Medicine, Department of Pharmacology & Pharmacotherapy, Szeged, Hungary (25.03.2013 - 08.04.2013, 22.07.2013 - 26.07.2013)

## PUBLICATIONS

▪ Agoston-Vas, A., Ilie, C., Privistirescu, A., Borza, C. Functional evaluation of oxidative stress parameters in hypoxic premature born infants. *FREE RADICAL BIOLOGY AND MEDICINE*, 2019; 139(S1): S10-S10 IF: 5.657

▪ **Privistirescu, I.A.**, Sima, A., Duicu, O.M., Timar, R., Roșca, M.G., Sturza, A., Muntean, D.M. *Methylene blue alleviates endothelial dysfunction and reduces oxidative stress in aortas from diabetic rats*. *Can J Physiol Pharmacol* 2018 Jun 12:1-5. doi: 10.1139/cjpp-2018-0119. **IF: 2,21**

▪ Duicu, O.M., **Privistirescu, A.**, Wolf, A., Petruș, A., Dănilă, M.D., Rațiu, C.D., Muntean, D.M., 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; 95(11): 1376-1382. **IF: 2,21**

▪ Nica, D.V., Popescu, C., Draghici, G.A., Andrica, F.M., **Privistirescu, I.A.**, Gergen, I.I., Stöger, R. *High-level dietary cadmium exposure is associated with global DNA hypermethylation in the gastropod hepatopancreas*. *PLoS One*, 2017; 12(9):e0184221. **IF: 2.776**

▪ Nica, D., Popescu, C., Draghici, G., **Privistirescu, I.**, Suci, M., Stöger, R. *Effect of cadmium on cytosine hydroxymethylation in gastropod hepatopancreas*. *Environ Sci Pollut Res Int*. 2017;

24(17):15187-15195. **IF: 2.914**

- Dănilă, M.D., **Privistirescu, A.**, Duicu, O., Rațiu, C.D., Angoulvant, D., Muntean D.M., Sturza, A. The effect of purinergic signaling via the P2Y<sub>11</sub> receptor on vascular function in a rat model of acute inflammation. **Mol Cell Biochem** 2017; 431: 37-44. **IF: 2,669**
- Duicu, O., Petrus, A., Fendt, M., **Privistirescu, A.**, Sturza, A., Muntean, D., Lighezan, R. *Impairment of platelet mitochondrial respiration in patients with metabolic syndrome: a pilot study.* **European Section meeting of IACS**, 28-30 septembrie 2017, Pecs, Hungary; Programme book pag.71.
- **Privistirescu, A.**, Duicu, O., Petrus, A., Rătiu, C., Ionica, L., Sturza, A., Muntean, D. *Protective effects of methylene blue and MAO inhibitors in experimental diabetes: a candidate (ODD) couple for drug repurposing.* **European Section meeting of IACS**, 28-30 septembrie 2017, Pecs, Hungary; Programme book pag.73.
- Rătiu, C., Pfab, J., Petrus, A., **Privistirescu, A.**, Duicu, O., Muntean, D., Sturza, A. *Monoamine oxidase inhibition improves vascular function and reduces oxidative stress in rats with lipopolysaccharide-induced inflammation.* The Conference of the Romanian Society of Pathophysiology, 7-9 septembrie 2017, Cluj-Napoca, Romania; **Clujul Medical** 90(5): S20. p-ISSN 1222-2119, e-ISSN 2066-8872.
- Duicu, O., Petrus, A., Fendt, M., **Privistirescu, A.**, Sturza, A., Muntean, D., Lighezan, R. *Mitochondrial respiration on platelets is compromised in patients with metabolic syndrome.* The Conference of the Romanian Society of Pathophysiology, 7-9 septembrie 2017, Cluj-Napoca, Romania; **Clujul Medical** 90(5):S23. p-ISSN 1222-2119, e-ISSN 2066-8872.
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## ABSTRACT

- Iasmina M. Ilinca, **Andreea I. Anechitei**, Adrian Sturza, Claudia Borza, Edward Șeclăman, Flavia Zară, Danina M. Muntean - Assessment of the Oxidative Stress in Colorectal Cancer: Focus of Monoamine Oxidase Contribution and Its Interaction With mRNA, ADVANCED RESEARCH SYMPOSIUM FOR PhD STUDENTS“Trends in Medical Research: Where Do We Stand in 2025?”
- Sturza A, Buriman D, Danila M, **Anechitei A**, Avram V, Feier HB, Borza C, Muntean DM, Monoamine Oxidase Overexpression Persists Despite Glycemia Normalization And Contributes To Endothelial Dysfunction In Experimental Diabetes, Czech Cardiovascular Research and Innovation Days 2025 & 11th European Section Meeting of the International Academy of Cardiovascular Sciences, Prague, November 2–4, 2025, Cor Vasa 2025;67(Suppl. 4), Pag 73-74, ISSN 0010-8650 (print), ISSN 1803-7712 (online)
- Agoston-Vas, A., Ilie, C., **Privistirescu, A.**, Borza, C. *Functional evaluation of oxidative stress parameters in hypoxic premature born infants.* FREE RADICAL BIOLOGY AND MEDICINE, 2019; 139(S1): S10-S10 **IF: 5.657**
- Duicu, O., Petrus, A., Fendt, M., **Privistirescu, A.**, Sturza, A., Muntean, D., Lighezan, R. *Impairment of platelet mitochondrial respiration in patients with metabolic syndrome: a pilot study.* **European Section meeting of IACS**, 28-30 septembrie 2017, Pecs, Hungary; Programme book pag.71.
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- Scurtu, I., Duicu, O.M., Sturza, A., Pavel, I.Z., Petrus, A., **Privistirescu, A.**, Deheleanu, C., Muntean, D.M. *Characterization of the effects of two cholesterol-lowering drugs on mitochondrial function in H9C2 myoblasts.* **European journal of clinical investigation** 2015; 45(2): 31. IF: 2,734
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- Duicu, O.M., Sturza, A., **Anechitei, A.**, Danila, M.D., Noveanu, L., Muntean, D.M. *Methylene blue modulates mitochondrial function in diabetic rat heart.* **Advances in Cardiovascular Research Symposium – from the bench to the patient’s bed** 2015; Smolenice Castle, Bratislava, Slovakia, 2-5 sept 2015, Program and Abstract Book, p.67. ISBN 978-80-224-1452-4
- Sturza, A., Duicu, O.M., Vaduva, A., Noveanu, L., **Privistirescu, A.**, Danila, M.D., Munteanu, M., Timar, R., Muntean, D.M. *Calcitriol modulates vascular expression of receptor for advanced glycation end products and monoamine oxidase in experimental diabetes.* **Advances in Cardiovascular Research Symposium – from the bench to the patient’s bed** 2015; Smolenice Castle, Bratislava, Slovakia, 2-5 sept 2015, Program and Abstract Book, p.89. ISBN 978-80-224-1452-4
- Coricovac, D., Duicu, O.M., **Anechitei, A.**, Danila, M., Pinzaru, I., Dehelean, C., Muntean, D.M. *Assessment of age-related changes in respiratory function of liver and heart isolated rat mitochondria.* **European journal of clinical investigation** 2015, 45(2): 30. IF: 2,734
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- Duicu, O.M., Sturza, A., **Privistirescu, A.**, Danila, M.D., Noveanu, L., Muntean, D.M. *Assessment of the methylene blue effects in diabetic rat hearts-old drug, new tricks.* **Clasic si modern in Fiziopatologie** 2015; p.128. ISBN 978-606-544-311-2
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- **Privistirescu, A.**, duicu, O.M., Sturza, A., Noveanu, L., Ionac, A., Gaspar, C., Muntean, D.M., Borza, C. *Assessment of oxidative in coronary patients with and without diabetes mellitus.* **Clasic si modern in Fiziopatologie** 2015; p.117. ISBN 978-606-544-311-2
- Vaduva, A., Sturza, A., Duicu, O.M., **Privistirescu, A.**, Muntean, D.M., Dema, A. *Custom designed image analysis protocol for fluorescence quantification of dihydroethidium labeled frozen sections.* **First Euroregional conference for PhD students and young researchers in biomedicine** 2015; Abstract book, p.9. ISBN 978-606-8456-23-2
- Duicu, O., Scurtu, I., Sturza, A., **Privistirescu, A.**, Gheorgheosu, D., Noveanu, L., Muntean, D.M. *The bioenergetic profile of H9c2 myoblasts treated with methylene blue.* **Fiziologia** 2015. (S), ISSN 1223-2076
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N. *Cardioprotection by pharmacological agents targeting mitochondria is preserved in isolated aged rat hearts.* **Cardiovasc Res** 2014; 103(1): 151. IF:5,808

- Duicu, O.M., Gorbe, A., **Privistirescu, A.**, Mirica, N.S., Csont, T., Ferdinandy, P., Muntean, D.M. *Magnesium orotate in high concentration elicits cardioprotection via modulation of mitochondrial functions.* **Cardiovasc Res** 2014; 103(1): S29. IF: 5,808
- Danila, M., **Privistirescu, A.**, Mirica, N., Duicu, O., Sturza, A., Noveanu, L., Muntean, D. *Acute inhibition of monoamine oxidases is protective against ischemia/reperfusion injury in preconditioned hearts.* **European Section Meeting of the International Academy of Cardiovascular Sciences (IACS)** 2014, Balatongyörök, Hungary, 08.10.2014-11.10.2014, Programme and abstract book, p. 62. **Lucrare distinsă cu Premiul II la Secțiunea Poster**
- Duicu, O., **Privistirescu, A.**, Noveanu, L., Angoulvant, D., Baczko, I., Jost, N., Muntean, D. *Mitochondrial-dependent cardioprotection during postischemic reperfusion is preserved in isolated aged rodent hearts.* **Archives of Cardiovascular Diseases Supplements** 2014; 6:30. IF:1,662
- Pavel, I., Duicu, O., Coricovac, D., **Privistirescu, A.**, Dehelean, C., Csuk, R., Muntean, D. *Characterization of the maslinic acid effects on mouse liver mitochondria.* **Molecular, cellular and integrative basis of health and disease: transdisciplinary approach** 2014; Abstract book, p.154.
- Petrus, A., Duicu, O., **Privistirescu, A.**, Sturza, A., Noveanu, L., Baczo, I., Jost, N., Muntean, D. *A novel mitochondrial ATP-sensitive potassium channel opener modulates respiration in isolated rat heart mitochondria.* **Molecular, cellular and integrative basis of health and disease: transdisciplinary approach** 2014; Abstract book, p.161.
- Duicu, O., **Privistirescu, A.**, Mirica, S., Muntean, D. *Pharmacological cardioprotection at reperfusion is preserved in the aged rodent heart.* **Advances in Cardiovascular Research** 2013; Congress Centre of the Slovak Academy of Science, Bratislava, Slovakia, Abstract book, p.59. IF:5,6
- **Privistirescu, A.**, Mirica, N., Duicu, O., Sturza, A., Noveanu, L., Muntean, D. *Monoamine oxidase inhibition does not interfere with cardioprotection elicited by ischemic preconditioning in isolated rat hearts.* **Romanian Journal of Cardiology** 2013; The 52nd National Congress of Cardiology, 3-5 octombrie 2013; 3(B): B147-148. ISSN 1583-2996
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- Mirica, S.N., Gheorghiu, G., Duicu, O.M., **Anechitei, A.**, Fira-Mladinescu, O., Angoulvant, D., Muntean, D. *Magnesium orotate induces cardioprotection against regional and global ischemia in rat hearts regardless the timing of administration.* **European Journal of Heart Failure** 2012; Belgrade Serbia, Mai 19-22, 11(1): S58. FI: 5
- Mirica, S.N., Duicu, O. M., **Privistirescu, A.I.**, Danila, M.D., Fira-Mladinescu, O., Muntean, D. *Pharmacological and ischemic postconditioning: a comparative study in isolated rat hearts.* **Conference and Advanced Translational Research Workshop "Chronic Diseases – From Pathogenesis to Therapy** 2012; Abstract book, pag. 36. ISBN 978-606-8054-93-3
- Duicu, O.M., Trancotă, S., Mirica, S.N., **Privistirescu, A.**, Gheorgheosu, D., Fira-Mladinescu, O., Muntean, D. *Magnesium orotate protects mitochondria against calcium overload: a study in senescent vs. adult rats.* **Conference and Advanced Translational Research Workshop "Chronic Diseases – From Pathogenesis to Therapy** 2012; Abstract book, pag. 54. ISBN 978-606-8054-93-3
- Trancotă, S., Mirică, N., Duicu, O., Gheorgheosu, D., **Anechitei, A.**, Fira-Mladinescu, O., Muntean, D. *Magnesium orotate alleviates mitochondrial dysfunction induced by acute ischemia/reperfusion injury in rat hearts.* **Conferința Internațională și Workshop-ul Exploratoriu "Sudden Cardiac Death & Cardioprotection** 2012; Abstract book, pag. 82-83. ISBN 978-606-8054-80-3.
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- Duicu, O. M., Mirica, N., Gheorgheosu, D., Trancota, S., **Anechitei, A.**, Fira Mladinescu, O., Muntean, D. *Age effects on mitochondrial respiration and membrane potential in rat hearts.* **International Symposium on New Approaches in Cardiovascular Disorders: From Genes & Molecules to Clinical Applications** 2011; Ankara, Turkey, 4 – 8 Mai, Abstract Book, p.54.
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