**Lista lucrărilor publicate**

**1) Publicaţii in extenso în reviste ISI (cu FI) și BDI:**

**Autor principal**

• **Alexandra Petruș**, Oana M. Duicu, Adrian Sturza, Lavinia Noveanu, Loránd Kiss, Maria Dănilă, István Baczkó, Danina M. Muntean, Norbert Jost. **Modulation of Mitochondrial Respiratory Function and ROS Production by Novel Benzopyran Analogues**. *Can J Phys Pharmacol*. 2015; 93(9): 811-8.Doi: 10.1139/cjpp-2015-0041. **FI: 1.704**

* **Alexandra Petrus**, Adrian Sturza, Diana Utu, Oana Duicu, Ovidiu Bedreag, Lorand Kiss, Istvan Baczko, Danina Muntean, Norbert Jost. **Modulation of Vascular Reactivity by Novel Synthetic Benzopyran Analogues in Rat Aortas**. *REV.CHIM.(Bucharest*). 2016; 67(5): 908-910. **FI: 1.232**
* **Alexandra Petrus**, Adrian Sturza, Oana Duicu, Norbert Jost, Danina Muntean, Istvan Baczko. **Characterization of The Effects of SarcKATP and MitoKATP Modulators on Reperfusion-Induced Arrhythmias in Isolated Rat Hearts.** Fiziologia - *Physiology* . 2016; 26 (1): 35-39. **(BDI)**
* **Alexandra Petrus**, Corina Ratiu, Lavinia Noveanu, Rodica Lighezan, Mariana Rosca, Danina Muntean, Oana Duicu. **Assessment of Mitochondrial Respiration in Human Platelets.** *Rev. Chim.* (Bucharest). 2017; 68(4):768-771. **FI: 1.412**
* **Petrus AT**, Lighezan DL, Danila MD, Duicu OM, Sturza A, Muntean DM, Ionita I. **Assessment of platelet respiration as emerging biomarker of disease.** *Physiol Res.* 2019; 68(3):347-363. DOI: 10.33549/physiolres.934032. **FI: 1.655**
* **Mioc, Alexandra**; Mioc, Marius; Ghiulai, Roxana; Voicu, Mirela; Babuta, Roxana; Trandafirescu, Cristina; Dehelean, Cristina; Coricovac, Dorina; Soica, Codruta Marinela. **Gold nanoparticles as targeted delivery systems and theranostic agents in cancer therapy.** *Current medicinal chemistry.* 2019*;* 26(35):6493-6513. DOI: 10.2174/0929867326666190506123721. **FI: 4.184 - red area** (according to the JCR 2020 IF/AIS classification).
* Macasoi, Ioana\*; **Mioc, Alexandra\*;** Mioc, Marius; Soica, Irina; Chevereșan, Adelina; Dehelean, Cristina; Dumitrașcu, Victor (\* authors with equal contribution). **Targeting mitochondria through the use of mitocans as emerging anticancer agents.** *Current medicinal chemistry*. 2020; 27(34): 5730-5757. DOI:10.2174/0929867326666190712150638 **FI: 4.53 - red area** (according to the JCR 2020 IF/AIS classification).
* Macasoi, I; Pavel, IZ; Moaca, AE; Avram, S; David, VL; Coricovac, D; **Mioc, A#;** Spandidos, DA; Tsatsakis, A; Soica, C; Dumitrascu, V; Dehelean, C.(# corresponding author). **Mechanistic investigations of antitumor activity of a Rhodamine B-oleanolic acid derivative bioconjugate.** Oncology Reports. 2020; 44(3): 1169-1183. DOI: 10.3892/or.2021.7981 **FI: 3.906 - yellow area** (according to the JCR 2020 IF/AIS classification).
* Codruta Soica, Mirela Voicu, Roxana M. Ghiulai, Cristina Dehelean, Roxana Racoviceanu, Cristina Trandafirescu, Oana Rosca, Gabriela Nistor, Mioc Marius, **Alexandra Mioc**. **Natural compounds in sex hormone-dependent cancers: the role of triterpenes as therapeutic agents**. *Frontiers in Endocrinology.* 2021; 11: 612396. DOI: 10.3389/fendo.2020.612396. **FI: 5.555 - yellow area** (according to the JCR 2020 IF/AIS classification).
* Dorina Coricovac, Cristina Adriana Dehelean, Iulia Pinzaru, **Alexandra Mioc\*** (\*corresponding author), Oana-Maria Aburel, Ioana Macasoi, George Andrei Draghici, Crina Petean, Codruta Soica, Madalina Boruga, Brigitha Vlaicu, Mirela Danina Muntean. **Assessment of Betulinic Acid Cytotoxicity and Mitochondrial Metabolism Impairment in a Human Melanoma Cell Line**. *Int J Mol Sci.* 2021; 22, 4870. <https://doi.org/10.3390/ijms2209487>. **FI: 5.924**. **- yellow area** according to the JCR 2020 IF/AIS classification).
* Kazakova O, **Mioc A\***, Smirnova I, Baikova I, Voicu A, Vlaia L, et al **(\* authors with equal contribution)**. **Novel Synthesized N-Ethyl-Piperazinyl-Amides of C2-Substituted Oleanonic and Ursonic Acids Exhibit Cytotoxic Effects through Apoptotic Cell Death Regulation**. *Int J Mol Sci.* 2021;22(20):10967. **FI: 5.924 - yellow area** (according to the JCR 2020 IF/AIS classification).
* Minda D**\***, **Mioc A\***, Banciu C, Soica C, RacoviceanuR, Mioc M, Macasoi I, Avram S, Voicu A, Motoc A, Trandafirescu C (\*Authors with equal contribution). **Cyclodextin Dispersion of Mebendazole and Flubendazole Improves In Vitro Antiproliferative Activity**. Processes. 2021, 9(12)2185. **FI 2.847**
* Alexandra Prodea†, **Alexandra Mioc†** (†Authors with equal contribution), Christian Banciu\*, Cristina Trandafirescu,\* Andreea Milan, Roxana Racoviceanu, Roxana Ghiulai, Marius Mioc, Codruta Soica. **The role of cyclodextrins in the design and development of 2 triterpene-based therapeutic agents**. *Int J Mol Sci.* 2022; 23, 736. https://doi.org/10.3390/ijms23020736. **FI: 5.924- yellow area** (according to the JCR 2020 IF/AIS classification).

**Co-autor**

• Corina Danciu, Szilvia Berkó, Gábor Varju , Boglárka Balázs, Lajos Kemény, István Balázs Németh, Andreea Cioca, **Alexandra Petruș**, Cristina Dehelean, Citu Ioan Cosmin, Elena Amaricai, Claudia Crina Toma. **The Effect of Electroporation of a Lyotroic Liquid Crystal Genistein-Based Formulation in the Recovery of Murine Melanoma Lesions**. *Int J Mol Sci*. 2015; 16: 15425-15441; doi:10.3390/ijms16071542. **FI: 3.257**  **- yellow area** according to the JCR 2020 IF/AIS classification).

• Germaine Săvoiu-Balint , **Alexandra Petrus**, Rodica Mihăescu, Daniela Ionescu , Cosmin Citu, Iosif Marincu, Claudia - Crina Toma. **Role of Atorvastatin ((3R,5R)-7-[2-(4-fluorophenyl)-3-phenyl-4-(phenylcarbamoyl)-5-propan-2-ylpyrrol-1-yl]-3,5-dihydroxyheptanoic acid) on Endothelial Function in Patients with Dyslipidemia**. *REV CHIM*. 2015; 66(6): 833-836. **FI: 0.956**

* Germaine Savoiu Balint, Ovidiu Boruga, Gheorghe Iovanescu, Ramona Amina Popovici, Sorin Lucian Bolintineanu, Rodica Mihaescu, Calin Marius Popoiu, Eugen Boia, **Alexandra Petrus**, Mihaiela Andoni. **The Effects of Hg2+ on Endothelial Function in Electronic Cigarette Smokers with Coronary Artery Disease**. *REV CHIM*. 2017; 68(4):711-714. **FI: 1.412**
* Oana M Duicu , Andreea Privistirescu, Adrian Wolf, **Alexandra Petrus**, Maria D. Dănilă, Corina Ratiu, Danina M. Muntean, Adrian Sturza. **Methylene blue improves mitochondrial respiration and decreases oxidative stress in a substrate-dependent manner in diabetic rat hearts**. *Can J Phys Pharmacol*. 2017; 95(11): 1376-1382. DOI: 10.1139/cjpp-2017-0074. **FI: 2.210**
* Vivien Demeter-Haludka, Mária Kovács, **Alexandra Petruș**, Roland Patai, Danina M Muntean, László Siklós, Ágnes Végh. **Examination of the Role of Mitochondrial Morphology and Function in the Cardioprotective Effect of Sodium Nitrite Administered 24 h Before Ischemia/Reperfusion Injury.** Front. Pharmacol. 2018;9:286. DOI: 10.3389/fphar.2018.00286. **FI: 3.845** **- red area** (according to the JCR 2020 IF/AIS classification).
* Marius Mioc, Sorin Avram, Vasile Bercean, Ludovic Kurunczi, Roxana Maria Ghiulai, Camelia Oprean, Dorina Elena Coricovac, Cristina Dehelean, **Alexandra Mioc**, Mihaela Balan-Porcarasu, Calin Tatu, Codruta Soica. **Design, synthesis and biological activity evaluation of S-substituted 1H-5-mercapto-1, 2, 4-triazole derivatives as antiproliferative agents in colorectal cancer**. *Frontiers in Chemistry.* 2018; 6:373. DOI: 10.3389/fchem.2018.00373. **FI: 3.782 - yellow area** (according to the JCR 2020 IF/AIS classification).
* C Rațiu, D Uțu, **A Petruș**, P Norbert, S Olariu, O Duicu, A Sturza, DM Muntean. **Monoamine oxidase inhibition improves vascular function and reduces oxidative stress in rats with lipopolysaccharide-induced inflammation**. General physiology and biophysics, 2018, 37(6):687-694. **FI: 1.309**
* Macasoi I, Mioc M, Vaduva DB, Ghiulai R, **Mioc A** , Soica C, Muntean D, Dumistrascu V. **In silico Evaluation of the Antiproliferative Mithocondrial Targeted Mechanism of Action of Some Pentacyclic Triterpene Derivatives**. REV.CHIM.(Bucharest). 2018; 69(12): 3361-3363. **FI: 1.605**
* [Ionica, Mihaela](http://apps.webofknowledge.com.am.e-nformation.ro/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E2EL1sQetZ4karYoTQf&field=AU&value=Ionica%2C+Mihaela); [Aburel, Oana M](http://apps.webofknowledge.com.am.e-nformation.ro/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E2EL1sQetZ4karYoTQf&field=AU&value=Aburel%2C+Oana+M); [Vaduva, Adrian](http://apps.webofknowledge.com.am.e-nformation.ro/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E2EL1sQetZ4karYoTQf&field=AU&value=Vaduva%2C+Adrian); [**Petrus, Alexandra**](http://apps.webofknowledge.com.am.e-nformation.ro/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E2EL1sQetZ4karYoTQf&field=AU&value=Petrus%2C+Alexandra); [Rațiu, Sonia](http://apps.webofknowledge.com.am.e-nformation.ro/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E2EL1sQetZ4karYoTQf&field=AU&value=Ra%C8%9Biu%2C+Sonia); [Olariu, Sorin](http://apps.webofknowledge.com.am.e-nformation.ro/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E2EL1sQetZ4karYoTQf&field=AU&value=Olariu%2C+Sorin); [Sturza, Adrian](http://apps.webofknowledge.com.am.e-nformation.ro/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E2EL1sQetZ4karYoTQf&field=AU&value=Sturza%2C+Adrian); [Muntean, Danina M](http://apps.webofknowledge.com.am.e-nformation.ro/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E2EL1sQetZ4karYoTQf&field=AU&value=Muntean%2C+Danina+M). **Vitamin D alleviates oxidative stress in adipose tissue and mesenteric vessels from obese patients with subclinical inflammation.** *Canadian journal of physiology and pharmacology*. 2020; 98(2): 85-92. DOI:10.1139/cjpp-2019-0340 **FI: 2.273**
* Racoviceanu, R; Trandafirescu, C; Voicu, M; Ghiulai, R; Borcan, F; Dehelean, C; Watz, C; Aigner, Z; Ambrus, R; Coricovac, DE; Cicioban, D; **Mioc, A**; Szuhanek, CA; Soica, C. **Solid Polymeric Nanoparticles of Albendazole: Synthesis, Physico-Chemical Characterization and Biological Activity**. *Molecules*. 2020; 25(21). DOI: 10.3390/molecules25215130, **FI: 4.412 - yellow area** (according to the JCR 2020 IF/AIS classification).
* Roxana Ghiulai, Oana Janina Rosca, Diana Simona Antal, Marius Mioc, **Alexandra Mioc**, Roxana Racoviceanu, Ioana Macasoi, Tudor Olariu, Cristina Dehelean, Octavian Marius Cretu, Mirela Voicu, Codruta Soica. **Tetracyclic and Pentacyclic Triterpenes with High Therapeutic Efficiency in Wound Healing Approaches**. *Molecules.* 2020; 25, 5557; doi:10.3390/molecules25235557. **FI: 4.412 - yellow area** (according to the JCR 2020 IF/AIS classification).
* Delia Dumbrava, Liviana Alexandra Popescu, Codrut,a Marinela Soica, Alma Nicolin, Ileana Cocan, Monica Negrea, Ersilia Alexa, Diana Obistioiu, Isidora Radulov, Sofia Popescu, Claudia Watz, Roxana Ghiulai, **Alexandra Mioc**, Camelia Szuhanek, Cosmin Sinescu, Cristina Dehelean. **Nutritional, Antioxidant, Antimicrobial and Toxicological Profile of Two Innovative Types of Vegan, Sugar-Free Chocolate**. *Foods.* 2020; 9,1844. doi:10.3390/foods9121844. **FI:** **4.35 - yellow area** (according to the JCR 2020 IF/AIS classification).
* Călin Jianu, Daniela Stoin, Ileana Cocan, Ioan David, Georgeta Pop, Alexandra Teodora Lukinich-Gruia, Marius Mioc, **Alexandra Mioc**, Codruța Șoica, Delia Muntean, Laura-Cristina Rusu, Ionuț Goleț, Delia Ioana Horhat**. In Silico and In Vitro Evaluation of the Antimicrobial and Antioxidant Potential of Mentha× smithiana R. GRAHAM Essential Oil from Western Romania.** *Foods.* 2021; 10(4): 815. **FI: 4.35 - yellow area** (according to the JCR 2020 IF/AIS classification).
* Radulescu M, Jianu C, Lukinich-Gruia AT, Mioc M, **Mioc A**, Soica C, Loredana Gabriela Stana. **Chemical Composition, In Vitro and In Silico Antioxidant Potential of Melissa officinalis subsp. officinalis Essential Oil**. *Antioxidants*. 2021;10(7): 1081. **FI: 6.313 - red area** (according to the JCR 2020 IF/AIS classification).
* Kazakova O, Șoica C, Babaev M, Petrova A, Khusnutdinova E, Poptsov A, Macasoi I, Draghici G, Avram S, Vlaia L, **Mioc A**, Mioc M, Dehelean C, Voicu A. **3-Pyridinylidene Derivatives of Chemically Modified Lupane and Ursane Triterpenes as Promising Anticancer Agents by Targeting Apoptosis**. *Int J Mol Sci*. 2021;22(19):10695. **FI: 5.924 - yellow area** (according to the JCR 2020 IF/AIS classification).
* Călin Jianu, Ionuț Goleț, Daniela Stoin, Ileana Cocan, Gabriel Bujancă, Corina Mișcă, Marius Mioc, **Alexandra Mioc**, Codruța Șoica, Alexandra Teodora Lukinich-Gruia, Laura-Cristina Rusu, Delia Muntean, Delia Ioana Horhat. **Chemical Profile of Ruta graveolens, Evaluation of the Antioxidant and Antibacterial Potential of Its Essential Oil, and Molecular Docking Simulations.** *Applied Sciences.* 2021;11(24): 11753. **FI: 2.679**.
* Irina Smirnova, George Draghici, Oxana Kazakova, Lavinia Vlaia, Stefana Avram, **Alexandra Mioc**, Marius Mioc, Ioana Macasoi, Cristina Dehelean, Adrian Voicu, Codruta Soica. **Hollongdione arylidene derivatives induce antiproliferative activity against melanoma and breast cancer through pro-apoptotic and antiangiogenic mechanisms.** *Bioorganic Chemistry***.** 2022;119:105535. doi: 10.1016/j.bioorg.2021.105535. **FI: 5.275.**

**2) Cărți și capitole în cărți**

2.1 Carti:

- *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.

2.2 Capitol de carte:

- ”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.

**3) Alte lucrări şi contribuţii ştiinţifice**

**Publicații în rezumat:**

**A. Manifestări științifice naționale:**

* Petruș A., Duicu O., Sturza A., Noveanu L., Kiss L., Dănilă M., Baczkó I., Jost N., Muntean D. **Novel Synthetic Benzopyranyl Analogues Act as Uncoupling Protonophores & Decrease ROS Production in Isolated Rat Heart Mitochondria** - lucrare prezentată la The 13th National Conference of Biophysics, 4 -6 iunie 2015, Timisoara, Romania. Volum de rezumate p. 32. ISSN:2248-0749
* Alexandra Petruș, Oana M. Duicu, Adrian Sturza, Lavinia Noveanu, Loránd Kiss, Maria Dănilă, István Baczkó, Norbert Jost, Danina M. Muntean**. Modulation of Mitochondrial Respiration and ROS Production in Isolated Rat Heart Mitochondria by Novel Mitochondrial Potassium Channel Opener**s – prezentat la workshop-ul: “INTEGRAREA SCOLILOR DOCTORALE IN RETELE EUROPENE”, 27-28 martie 2015, Timisoara, Romania.
* Caragi D, Duicu O, Petruș A, Muntean D. **Assesement of mitochondrial dysfunction in aged rats by high resolution respirometry**. Medis, Timișoara, Martie 16-19, 2017.

**B. Manifestări științifice naționale cu participare internațională:**

• Petruș A., Duicu O., Sturza A., Noveanu L., Kiss L, Dănilă M, Baczko I., Jost N., Muntean D. **Efectele noilor deschizători ai mitoKATP asupra respirației mitocondriale si a producției de SRO**. Congresul National al Societatii Romane de Fiziopatologie cu participare internațională – Clasic si modern in Fiziopatologie. Volum de rezumate. 7-10 mai 2015, Iași, Romania. p. 231, ISBN: 978-606-544-311-2.

• Petruș A., Duicu O., Sturza A., Noveanu L., Kiss L, Dănilă M, Baczko I., Jost N., Muntean D. **Novel Mitochondrial Potassium Channel Openers Modulate Mitochondrial Respiration and ROS Production in Isolated Rat Heart Mitochondria-** la conferința: 49th Annual Scientific Meeting of the European Society for Clinical Investigation. European Journal of Clinical Investigation. 45 (Suppl. 2): 4-68. 27-30 mai 2015, Cluj-Napoca, Romania **FI: 2.68**

• Noveanu L, Privistirescu A, Danila M, Petrus A, Petcu M, Muntean D, Baczko I, Jost N. **The Effects of Novel ATP–Dependent Potassium Channels Modulators on Referfusion Arrhythmias.** Congresul National al Societatii Romane de Fiziopatologie cu participare internațională - Clasic si modern in Fiziopatologie. 7-10 mai 2015, Iași, Romania. p. 200, ISBN: 978-606-544-311-2.

* Scurtu Mytiko, O.M. Duicu, A. Sturza, I.Z. Pavel, A. Petrus, A. Privistirescu, C. Dehelean, D.M. Muntean. **Characterization of the effects of two cholesterol-lowering drugs on mitochondrial function in H9c2 myoblasts**. The 49th Annual Scientific Meeting of the European Society for Clinical Investigation Cluj-Napoca, Romania 27 – 30 may 2015, European Journal of Clinical Investigation. 45 (Issue Supplement s2): p. 31. Online ISSN: 1365-2362. **FI: 2.68**
* Mytiko, O. M. Duicu, R. Popescu, I. Z. Pavel, stud. A. Wolf, A. Petruș, A. Privistirescu, A. Sturza, D. M. Muntean. **Efectele bioenergetice și metabolice ale medicației hipocolesterolemiante pe mioblaștii H9c2.** Congresul Naţional al Societăţii Române de Fiziopatologie cu participare internaţională, 7-10 mai 2015, Iasi, România.
* Petruș A, Pop N, Marian L, Duicu O, Kiss L, Baczkó I, Jost N, Olariu S, Muntean D, Sturza A. **Vascular protection mediated by ATP-dependent channels in experimental diabetes.** Conferința Societății Române de Fiziopatologie, Cluj-Napoca, Romania, 7-9 Septembrie, Clujul medical, Vol 90. Pg: S88. 2017 Print ISSN 1222-2119; Online ISSN 2066-8872
* Ionica M, Duicu O, Petrus A, Pop N, Olariu S, Popoiu C, Boia E, Sturza A, Muntean D. **The impact of obesity on white adipose tissue oxygen consumption: a preliminary data report.** Conferința Societății Române de Fiziopatologie, Cluj-Napoca, Romania, 7-9 Septembrie, 2017. Clujul medical, Vol 90. Pg: S94. Print ISSN 1222-2119; Online ISSN 2066-8872.
* Duicu O, Petrus A, Fendt M, Privistirescu A, Sturza A, Muntean D, Lighezan R. **Mitochondrial respiration of platelets is compromised in patients with metabolic syndrome.** Conferința Societății Române de Fiziopatologie, Cluj-Napoca, Romania, 7-9 Septembrie, Clujul medical, Vol 90. Print ISSN 1222-2119; Online ISSN 2066-8872.
* Rațiu C, Pfab J, Petruș 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.** Conferința Societății Române de Fiziopatologie, Cluj-Napoca, Romania, 7-9 Septembrie, Clujul medical, Vol 90. Print ISSN 1222-2119; Online ISSN 2066-8872
* Duicu O, Petruș A, Rațiu C, Noveanu L, Muntean D, Lighezan R. **Assessement of mitochondrial respiratory function in human platelets as novel biomarker in cardio-metabolic diseases: a preliminary study**. Revista Română de Medicină de Laborator, Romanian Journal of Laboratory Medicine, ISSN: 1841-6624. **FI: 0,325**
* Muntean D, Duicu O, Rațiu C, Vaduva A, Petruș A, Săvoiu G, Sturza A. **Crosstalk between vitamin D and monoamine oxidase alleviates endothelial dysfunction in experimental diabetes**. Fiziologia. The 29th Conference of the Romaninan Society of Physiological Sciences with International Participation, Timișoara, May 25-27, 2017.
* Sturza A, Petuș A, Kiss L, Baczko I, Jost N, Munteanu M, Timar R, Muntean D. **Activation of ATP dependent-potassium channels by novel synthetic benzopyran derivatives alleviates endothelial dysfunction and oxidative stress in experimental diabetes**. The 43rd National Congress of the Romanian Society of Diabetes, Nutrition and Metabolic Diseases, Brașov, May 24-27, 2017.
* Sturza A, Petuș A, Savoiu G, Ratiu C, Duicu O, Vaduva A, Timar R, Muntean D. **Vitamin D blocks the positive feedback loop between hydrogen peroxide and monoamine oxidases in experimental diabetes mellitus** The 43rd National Congress of the Romanian Society of Diabetes, Nutrition and Metabolic Diseases, Brașov, May 24-27, 2017
* Olariu S, Boia E, Popoiu C, Duicu O, Ionica M, Pop N, Vaduva A, Savoiu-Balint G, Petruș A, Muntean D, Sturza A. **The role of Vitamin D in modulation of the vascular and mitochondrial function in adipose tissue.** 8th Education Course Central European Vascular Forum; 15th Romanian Congress of Phlebology with International Participation. Timișoara, Romania, 11-13 oct 2013.

**C. Manifestări internaționale:**

• Petruș A, Duicu O, Sturza A, Noveanu L, Baczkó I, Muntean D, Jost N. **Characterization of two novel pharmacological ATP-Sensitive Potassium channels modulators in isolated rat heart mitochondria**. The 25th European Students’ Conference “Rethinking Medical Research – How Do We Achieve Innovation?”, 17-20 September 2014, Charité, Berlin, Germania. p. 60

• Petruș A., Duicu O., Privistirescu A., Sturza A., Noveanu L., Muntean D., Baczkó I., Jost N. **Modulation of mitochondrial respiration by novel ATP-sensitive potassium channel openers**. The European Section Meeting of the International Academy of Cardiovascular Sciences, 8-10 October 2014, Balaton, Ungaria. p. 97, ISBN: 978-963-306-329-3

• Petruș A, Duicu O, Privistirescu A, Sturza A, Noveanu L, Baczkó I, Jost N, Muntean D. **A novel mitochondrial ATP-sensitive potassium channel opener modulates respiration in isolated rat heart mitochondria**. The 3rd Congress of Physiological Sciences of Serbia, 29-31 October 2014, Belgrad, Serbia. p. 161, ISBN: 978-86-904799-7-9.

• Alexandra Petruș, Oana Duicu, Adrian Sturza, Lavinia Noveanu, Loránd Kiss, István Baczkó, Norbert Jost, Danina Muntean. **Novel Synthetic Benzopyranyl Analogues Act As Uncoupling Protonophores and Decrease ROS Production in Isolated Rat Heart Mitochondria**. Mitochondrial Physiology- From Organelle to Organism, 17-21 August 2015, Copenhaga, Danemarca. p. 46.

* DM Muntean; A Petrus; O Duicu; A Privistirescu; M Danila; A Sturza; L Noveanu; I Baczko; N Jost. **Characterization of the effects of novel ATP-sensitive potassium channel openers in isolated rat heart mitochondria**. Heart Failure, 23-26 May 2015, Seville, Spain. European Journal of Heart Failure, 17 (Suppl. 1), p. 438, **FI: 5.135**

• Petruș A, Duicu O.M, Sturza A, Noveanu L, Kiss L, Dănilă M, Baczkó I, Jost N, Muntean D.M. **Further Insights into the Mitochondrial Effects of Synthetic Benzopyran Analogues**. The European Section Meeting of the International Academy of Cardiovascular Sciences, 8-10 October 2015, Belgrade, Republic of Serbia. p. 136, ISBN: 978-86-904799-8-6.

* A. Petrus, O. M. Duicu, A. Sturza, L. Noveanu, L. Kiss, M. Danila, I. Baczko, D. M. Muntean, N. Jost. **Novel Mitochondrial Potassium Channel Openers Uncouple Respiration and Decrease Reactive Oxygen Species Production in Isolated Rat Heart Mitochondria** - poster prezentat la Physiological Society's Physiology Meeting, 6-8 July 2015, Cardiff, United Kingdom. Proceedings of The Physiological Society, PC034, disponibil pe: <http://www.physoc.org/proceedings/abstract/Proc%20Physiol%20Soc%2034>
* D Muntean, A Sturza, A Petrus, O Duicu, L Kiss, M Danila, I Baczko, N Jost. **Modulation of vascular function and ROS production by novel synthetic benzopyran analogues in diabetes mellitus**. Cardiovascular Research, vol. 111, pg. 99, GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND: OXFORD UNIV PRESS, 2016. **FI: 5.878**
* Oana Duicu, A Petruș, A Sturza, L Kiss, M Dănilă, I Baczkó, N Jost, D Muntean. **Novel synthetic benzopyran derivatives enhance endothelial function and reduce oxidative stress in vascular preparations.** International Academy of Cardiovascular Sciences (IACS) 3rd European Section Meeting, Marseille, France, October 1–4, 2016. Curr Res Cardiol. Vol 3, Nr. 3, Pg. 107. **FI: 0.35**
* Dănilă M, Sturza A, Petruș A, Duicu Oana, Angoulvant D, Muntean D. **Activation of purinergic receptors p2y11 alleviated endothelial dysfunction and oxidative stress in an experimental model of acute inflammation**. International Academy of Cardiovascular Sciences (IACS) 3rd European Section Meeting, Marseille, France, October 1–4, 2016. Curr Res Cardiol. Vol 3, Nr. 3, Pg. 106. **FI: 0.35**
* Vivien Demeter-Haludka, M Kovacs, Petruș A, R Patai, L Siklos, D Muntean, A Vegh. **Altered mitochondrial morphology and function involved in the delayed antiarrhythmic effect of sodium nitrite in anaesthetized dogs**. International Academy of Cardiovascular Sciences (IACS) 3rd European Section Meeting, Marseille, France, October 1–4, 2016. Curr Res Cardiol. Vol 3, Nr. 3, Pg. 106. **FI: 0.35**
* Duicu O, Petruș A, Fendt Michael, Privistirescu A, Stuza A, Muntean D, Lighezan R. **Impairment of platelet mitochondrial respiration in patients with metabolic syndrome: a pilot study.** International Academy of Cardiovascular Sciences (IACS), European Section Meeting, Pecs, Hungary, September 28-30, 2017.
* Privistirescu A, Duicu O, Petruș A, Ratiu C, Ionica L, Stuza A, Muntean D. **Protective effects of methylene blue and MAO inhibitors in experimental diabetes: a candidate (ODD) couple for drug repurposing.** International Academy of Cardiovascular Sciences (IACS), European Section Meeting, Pecs, Hungary, September 28-30, 2017.
* Ionică M, Duicu O, Petrus A, Pop N, Olariu S, Popoiu C, Boia E, Sturza A, Muntean D. **Age-depdendent impairment of adipose tissue oxidative capacity in obesity.** International Academy of Cardiovascular Sciences (IACS), European Section Meeting, Pecs, Hungary, September 28-30, 2017.
* Muntean D, Petrus A, Ratiu C, Ionica M, Duicu O, Lighezan R. **Impairment of platelet mitochondrial respiration in metabolic syndrome: A pilot study**. 12th Conference on Mitochondrial Physiology, Hradec Kralove, Czech Republic, November 15-18, 2017.
* Vivien Demeter-Haludka, M Kovacs, Petruș A, D Muntean, N. Nagy, A. Varro, A. Vegh. **The effect of sodium nitrite on the calcium homeostasis on the cell.** 5th European Section meeting of the International Academy of Cardiovascular Sciences (IACS), European Section Meeting, Bratislava, Slovak Republic, May 2018.
* Duicu O., Petruș A, Pop N, Olariu S, Boia E, Sturza A, Muntean D. **Age-Dependent Impairment of Platelet Oxidative Capacity In Obesity: A Pilot Study**. New Frontiers in basic cardiovascular research: France- New EU Members, Prague, Czech Republic, 11-14 nov 2018.

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