

Conf. Dr. Mioc Marius Nicolae

LISTA DE LUCRĂRI ȘTIINȚIFICE

I. Teză de doctorat: “Proiectarea, sinteza și testarea unor compuși bioactivi noi, potențiale medicamente pentru căile de semnalizare în cancerul de colon”, 2017, coordonator Prof. Univ. Dr. Ludovic Kurunczi, Institutul de Chimie al Academiei Române, Timișoara

II. Articole publicate în extenso în reviste de specialitate

a. Articole publicate în reviste cotate ISI

1. Pinzaru, I.; Trandafirescu, C.; Szabadai, Z.; **Mioc, M.**; Ledeti, I.; Coricovac, D.; Ciurlea, S.; Ghiulai, R.M.; Crainiceanu, Z.; Simu, G. Synthesis and Biological Evaluation of Some Pentacyclic Lupane Triterpenoid Esters. *Rev. Chim.* 2014, 65, 848–851.
2. Ledeti, I.; Avram, S.; Bercean, V.; Vlase, G.; Vlase, T.; Ledeti, A.; Zupko, I.; **Mioc, M.**; Suta, L.M.; Soica, C.; et al. Solid-State Characterization and Biological Activity of Betulonic Acid Derivatives. *MOLECULES* 2015, 20, 22691–22702, doi:10.3390/molecules201219876.
3. Oprean, C.; **Mioc, M.**; Csányi, E.; Ambrus, R.; Bojin, F.; Tatu, C.; Cristea, M.; Ivan, A.; Danciu, C.; Dehelean, C.; et al. Improvement of Ursolic and Oleanolic Acids' Antitumor Activity by Complexation with Hydrophilic Cyclodextrins. *Biomed. Pharmacother.* 2016, 83, 1095–1104, doi:10.1016/j.biopha.2016.08.030.
4. Nicolov, M.; **Mioc, M.**; Dragos, D. Hartman Perdok Method for Analysis of Growth Form of Crystals. *Rev. Chim.* 2016, 67, 1014–1018.
5. Soica, C.; Coricovac, D.; Dehelean, C.; Pinzaru, I.; **Mioc, M.**; Danciu, C.; Fulias, A.; Puiu, M.; Sitaru, C. Nanocarriers as Tools in Delivering Active Compounds for Immune System Related Pathologies. *Recent Pat. Nanotechnol.* 2016, 10, 128–145, doi:10.2174/1872210510999160427113345.
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7. Moleriu, L.; Duse, A.O.; Borcan, F.; Soica, C.; Kurunczi, L.; Nicolov, M.; **Mioc, M.** Formulation and Characterization of Antibacterial Hydrogels Based on Polyurethane Microstructures and 1,2,4-Triazole Derivatives. *Mater. Plast.* 2017, 54, 348–352.
8. Danciu, C.; Alexa, E.; Avram, S.; Minda, D.; Pavel, I.Z.; Babuta, R.; **Mioc, M.**; Ledeti, I.; Hepcal, I.C.; Motoc, A. Total Polyphenol Content and Antiproliferative Activity of Green Tea Extracts Collected from Romanian Pharmaceuticals Market. *Rev. Chim.* 2017, 68, 1174–1176.
9. **Mioc, M.**; Avram, S.; Tomescu, A.B.; Chiriac, D. V; Heghes, A.; Voicu, M.; Voicu, A.; Citu, C.; Kurunczi, L. Docking Study of 3-Mercapto-1,2,4-Triazole Derivatives as Inhibitors for VEGFR and EGFR. *Rev. Chim.* 2017, 68, 500–503.
10. **Mioc, M.**; Avram, S.; Bercean, V.; Porcarasu, M.B.; Soica, C.; Susan, R.; Kurunczi, L. Synthesis, Characterization and Antiproliferative Activity Assessment of a Novel 1H-5-Mercapto-1,2,4 Triazole Derivative. *Rev. Chim.* 2017, 68, 745–747.
11. **Mioc, M.**; Soica, C.; Bercean, V.; Avram, S.; Balan-Porcarasu, M.; Coricovac, D.; Ghiulai, R.; Muntean, D.; Andrica, F.; Dehelean, C.; et al. Design, Synthesis and Pharmacotoxicological Assessment of 5-Mercapto-1,2,4-Triazole Derivatives with Antibacterial and Antiproliferative Activity. *Int. J. Oncol.* 2017, 50, 1175–1183, doi:10.3892/ijo.2017.3912.
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14. **Mioc, M.**; Avram, S.; Bercean, V.; Kurunczi, L.; Ghiulai, R.M.; Oprean, C.; Coricovac, D.E.; Dehelean, C.; Mioc, A.; Balan-Porcarasu, M.; et al. Design, Synthesis and Biological Activity Evaluation of S-Substituted 1H-5-Mercapto-1,2,4-Triazole Derivatives as Antiproliferative Agents in Colorectal Cancer. *Front. Chem.* 2018, 6, doi:10.3389/fchem.2018.00373.
15. Cheverasan, A.; **Mioc, M.**; Simu, S.; Soica, C.; Dehelean, C.; Szasz, F.; Navolan, D.; Poenaru, M. Binding Affinity of 17-Beta-Ethinylestradiol to Normal and Mutant Types of Estrogen Receptors. *Rev. Chim.* 2018, 69, 2067–2070.

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17. **Mioc, M.**; Pavel, I.Z.; Ghiulai, R.; Coricovac, D.E.; Farcas, C.; Mihali, C.-V.; Oprean, C.; Serafim, V.; Popovici, R.A.; Dehelean, C.A.; et al. The Cytotoxic Effects of Betulin-Conjugated Gold Nanoparticles as Stable Formulations in Normal and Melanoma Cells. *Front. Pharmacol.* 2018, 9, doi:10.3389/fphar.2018.00429.
18. Nicolov, M.; Ghiulai, R.M.; Voicu, M.; **Mioc, M.**; Duse, A.O.; Roman, R.; Ambrus, R.; Zupko, I.; Moaca, E.A.; Coricovac, D.E.; et al. Cocrystal Formation of Betulinic Acid and Ascorbic Acid: Synthesis, Physico-Chemical Assessment, Antioxidant, and Antiproliferative Activity. *Front. Chem.* 2019, 7, doi:10.3389/fchem.2019.00092.
19. Danciu, C.; Pinzaru, I.; Coricovac, D.; Andrica, F.; Sizemore, I.; Dehelean, C.; Baderca, F.; Lazureanu, V.; Soica, C.; **Mioc, M.**; et al. Betulin Silver Nanoparticles Qualify as Efficient Antimelanoma Agents in in Vitro and in Vivo Studies. *Eur. J. Pharm. Biopharm.* 2019, 134, 1–19, doi:10.1016/j.ejpb.2018.11.006.
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21. Mioc, A.; **Mioc, M.**; Ghiulai, R.; Voicu, M.; Racoviceanu, R.; Trandafirescu, C.; Dehelean, C.; Coricovac, D.; Soica, C. Gold Nanoparticles as Targeted Delivery Systems and Theranostic Agents in Cancer Therapy. *Curr. Med. Chem.* 2019, 26, 6493–6513, doi:10.2174/0929867326666190506123721.
22. Dehelean, C.A.; Lazureanu, V.; Coricovac, D.; **Mioc, M.**; Oancea, R.; Marcovici, I.; Pinzaru, I.; Soica, C.; Tsatsakis, A.M.; Cretu, O. SARS-CoV-2: Repurposed Drugs and Novel Therapeutic Approaches-Insights into Chemical Structure-Biological Activity and Toxicological Screening. *J. Clin. Med.* 2020, 9, doi:10.3390/jcm9072084.
23. Ghiulai, R.; Avram, S.; Stoian, D.; Pavel, I.Z.; Coricovac, D.; Oprean, C.; Vlase, L.; Farcas, C.; **Mioc, M.**; Minda, D.; et al. Lemon Balm Extracts Prevent Breast Cancer Progression In Vitro and In Ovo on Chorioallantoic Membrane Assay. *EVIDENCE-BASED Complement. Altern. Med.* 2020, 2020, doi:10.1155/2020/6489159.

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28. Dehelean, C.A.; Marcovici, I.; Soica, C.; **Mioc, M.**; Coricovac, D.; Iurciuc, S.; Cretu, O.M.; Pinzaru, I. Plant-Derived Anticancer Compounds as New Perspectives in Drug Discovery and Alternative Therapy. *MOLECULES* 2021, 26, doi:10.3390/molecules26041109.
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36. Soica, C.; Voicu, M.; Ghiulai, R.; Dehelean, C.; Racoviceanu, R.; Trandafirescu, C.; Rosca, O.J.; Nistor, G.; **Mioc, M.**; Mioc, A. Natural Compounds in Sex Hormone-Dependent Cancers: The Role of Triterpenes as Therapeutic Agents. *Front. Endocrinol. (Lausanne)*. 2021, 11, doi:10.3389/fendo.2020.612396.
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Antiproliferative Activity against Melanoma and Breast Cancer through Pro-Apoptotic and Antiangiogenic Mechanisms. *Bioorg. Chem.* 2022, 119, doi:10.1016/j.bioorg.2021.105535.

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42. Nistor, G.; Trandafirescu, C.; Prodea, A.; Milan, A.; Cristea, A.; Ghiulai, R.; Racoviceanu, R.; Mioc, A.; **Mioc, M.**; Ivan, V.; et al. Semisynthetic Derivatives of Pentacyclic Triterpenes Bearing Heterocyclic Moieties with Therapeutic Potential. *MOLECULES* 2022, 27, doi:10.3390/molecules27196552.
43. Prodea, A.; Mioc, A.; Banciu, C.; Trandafirescu, C.; Milan, A.; Racoviceanu, R.; Ghiulai, R.; **Mioc, M.**; Soica, C. The Role of Cyclodextrins in the Design and Development of Triterpene-Based Therapeutic Agents. *Int. J. Mol. Sci.* 2022, 23, doi:10.3390/ijms23020736.
44. Budu, O.; Banciu, C.; Pinzaru, I.; Sarau, C.; Lighezan, D.; Soica, C.; Dehelean, C.; Draghici, G.; Dolghi, A.; Prodea, A.; et al. A Combination of Two Probiotics, *Lactobacillus Sporogenes* and *Clostridium Butyricum*, Inhibits Colon Cancer Development: An In Vitro Study. *MICROORGANISMS* 2022, 10, doi:10.3390/microorganisms10091692.
45. **Mioc, M.**; Mioc, A.; Prodea, A.; Milan, A.; Balan-Porcarasu, M.; Racoviceanu, R.; Ghiulai, R.; Iovanescu, G.; Macasoi, I.; Draghici, G.; et al. Novel Triterpenic Acid-Benzotriazole Esters Act as Pro-Apoptotic Antimelanoma Agents. *Int. J. Mol. Sci.* 2022, 23, doi:10.3390/ijms23179992.
46. Caizer, C.; Caizer, I.S.; Racoviceanu, R.; Watz, C.G.; **Mioc, M.**; Dehelean, C.A.; Bratu, T.; Soica, C. Fe₃O₄-PAA-(HP-Gamma-CDs) Biocompatible Ferrimagnetic Nanoparticles for Increasing the Efficacy in Superparamagnetic Hyperthermia. *NANOMATERIALS* 2022, 12, doi:10.3390/nano12152577.
47. Ghiulai, R.; **Mioc, M.**; Racoviceanu, R.; Prodea, A.; Milan, A.; Coricovac, D.; Dehelean, C.; Avram, Ștefana; Zamfir, A.D.; Munteanu, C.V.A.; et al. Structural Investigation of Betulinic Acid Plasma Metabolites by Tandem Mass Spectrometry. *Molecules* 2022, 27.
48. Ghiulai, R.; Mioc, A.; Racoviceanu, R.; **Mioc, M.**; Milan, A.; Prodea, A.; Semenescu, A.; Dehelean, C.; Barbu Tudoran, L.; Avram, Ștefana; et al. The Anti-Melanoma Effect of Betulinic Acid Functionalized Gold Nanoparticles: A Mechanistic In Vitro Approach. *Pharmaceuticals* 2022, 15.

49. **Mioc, M.**; Milan, A.; Malița, D.; Mioc, A.; Prodea, A.; Racoviceanu, R.; Ghiulai, R.; Cristea, A.; Căruntu, F.; Șoica, C. Recent Advances Regarding the Molecular Mechanisms of Triterpenic Acids: A Review (Part I). *Int. J. Mol. Sci.* 2022, 23, 7740, doi:10.3390/ijms23147740.
50. Jianu, C.; Rusu, L.-C.; Muntean, I.; Cocan, I.; Lukinich-Gruia, A.T.; Golet, I.; Horhat, D.; **Mioc, M.**; Mioc, A.; Șoica, C.; et al. In Vitro and In Silico Evaluation of the Antimicrobial and Antioxidant Potential of Thymus Pulegioides Essential Oil. *Antioxidants* 2022, 11.
51. Nistor, G.; Mioc, A.; **Mioc, M.**; Balan-Porcarasu, M.; Ghiulai, R.; Racoviceanu, R.; Avram, Ștefana; Prodea, A.; Semenescu, A.; Milan, A.; et al. Novel Semisynthetic Betulinic Acid-Triazole Hybrids with In Vitro Antiproliferative Potential. *Processes* 2023, 11.
52. **Mioc, M.**; Mioc, A.; Racoviceanu, R.; Ghiulai, R.; Prodea, A.; Milan, A.; Barbu Tudoran, L.; Oprean, C.; Ivan, V.; Șoica, C. The Antimelanoma Biological Assessment of Triterpenic Acid Functionalized Gold Nanoparticles. *Molecules* 2023, 28, 421, doi:10.3390/molecules28010421.
53. Jianu, C.; Lukinich-Gruia, A.T.; Rădulescu, M.; **Mioc, M.**; Mioc, A.; Șoica, C.; Constantin, A.T.; David, I.; Bujancă, G.; Radu, R.G. Essential Oil of Origanum Vulgare Var. Aureum L. from Western Romania: Chemical Analysis, In Vitro and In Silico Screening of Its Antioxidant Activity. *Appl. Sci.* 2023, 13.
54. Budu, O.; Banciu, C.D.; Soica, C.; Lighezan, D.F.; Milan, A.; Prodea, A.; Mioc, A.; **Mioc, M.**; Mardale, G.; Sima, L. Lacticaseibacillus Rhamnosus-A Promising Tool for Colorectal Cancer Treatment. *PROCESSES* 2023, 11, doi:10.3390/pr11030781.

b. Articole publicate în reviste cotate BDI

1. Camelia Oprean, Florin Borcan, Mirabela Cristea, Florina bojin, Alexandra ivan, **Marius Mioc**, Cristina Trandafirescu, Codruta Soica, Virgil Paunescu, Polyurethane Nanostructures Incorporating Ursolic and Oleanolic Acids: In Vitro Antiproliferative Evaluation, *Fiziologia*, 2015, 85, 39-40.
2. Borcan Florin; **Mioc Marius**; Ghiulai Roxana; Pinzaru Iulia; Dehelean Cristina Adriana; Soica Codruta Marinela, A Study on the Behavior of a Polyurethane Drug Carrier in Various pH Media., *Journal of medicine and life*, 2020, 13(2), 195-199; DOI:10.25122/jml-2020-0010

III. Lucrări prezentate la conferințe

a. Prezentări orale

1. Mioc M, Coricovac D, Trandafirescu C, Ghiulai R, Pavel I, Danciu C, Pinzaru I, Moaca A, Farcas C, Popovici R.A, Dehelean C, Ambrus R, Soica C. Comparative assessment of solid and hollow gold nanoparticles as antitumor nanoformulations. 2nd International Caparica Christmas Conference on Translational Chemistry (IC3TC). Caparica, Portugal, December 4-7, 2017.

b. Prezentări poster

1. Codruta Soica, **Marius Mioc**, Dorina Coricovac, Cristina Dehelean, Lavinia Vlaia, Ioana Olariu, Georgeta Coneac, Anca Dragomirescu, Roxana Ghiulai, Roxana Babuta, Cristina Trandafirescu. Comparative assessment of semisolid formulations containing gold nanoparticles loaded with betulin. International Conference Of Medicinal Plants Research. Warsaw, Poland, March 26, 2018.
2. Cristina Dehelean, **Marius Mioc**, Dorina Coricovac, Lavinia Vlaia, Ioana Olariu, Georgeta Coneac, Anca Dragomirescu, Cristina Trandafirescu, Roxana Ghiulai, Roxana Babuta, Codruta Soica. Semisolid formulations with betulinic acid – conjugated gold nanoparticles: physico-chemical and biological evaluation. International Conference Of Medicinal Plants Research. Warsaw, Poland, March 26, 2018.
3. Stefana Avram, Roxana Ghiulai, Iulia Pinzaru, Ioana Zinuca Pavel, Roxana Babuta, **Marius Mioc**, Corina Danciu, Daliana Mindal, Camelia Oprean, Dorina Coricovac, Codruta Soica, Cristina Dehelean. In vitro and in vivo effects of lemon balm extracts on breast cancer. International Conference Of Medicinal Plants Research. Warsaw, Poland, March 26, 2018.
4. Roxana Ghiulai, Camelia Oprean, Laurian Vlase, Iulia Pinzaru, Roxana Babuta, Marius Mioc, Corina Danciu, Dorina Coricovac, Codruta Soica, Cristina Dehelean, Stefana Avram. Qualitative and quantitative screening of melissa officinalis l. herba. International Conference Of Medicinal Plants Research. Warsaw, Poland, March 26, 2018.
5. Dorina Coricovac, Ioana Zinuca Pavel, George Andrei Draghici, Iulia Pinzaru, Stefana Avram, Marius Mioc, Roxana Ghiulai, Codruta Soica, Cristina Adriana Dehelean. TOXICOLOGY LETTERS, 53rd Congress of the European-Societies-of-Toxicology (EUROTOX), 2017, 280(1): S273-S273; DOI: 10.1016/j.toxlet.2017.07.962

6. **Mioc M**, Coricovac D, Trandafirescu C, Ghiulai R, Pavel I, Danciu C, Pinzaru I, Moaca A, Farcas C, Popovici R.A, Dehelean C, Ambrus R, Soica C. Comparative assessment of solid and hollow gold nanoparticles as antitumor nanoformulations. 2nd International Caparica Christmas Conference on Translational Chemistry (IC3TC). Caparica, Portugal, December 4-7, 2017.
7. Iulia Pinzaru, Dorina Coricovac, Ioana Zinuca Pavel, **Marius Mioc**, Alina Moaca, Codruta Soica, Cristina Dehelean. Betulin gold nanoparticles: a preliminary non-invasive evaluation of specific cutaneous parameters. 3rd international Conference on Natural Products Utilization: From Plants to Pharmacy Shelf. Bansko, Bulgaria, October 18-21, 2017.
8. Soica C, **Mioc M**, Coricovac D, Trandafirescu C, Ghiulai R, Pavel I, Danciu C, Pinzaru I, Moaca A, Dragomirescu A, Popovici R.A, Dehelean C. Betulin-conjugated gold nanoparticles with antitumor activity. 7th BBB International Conference on Pharmaceutical Sciences. Balatonfured, Hungary, October 5-7, 2017.
9. Soica C, **Mioc M**, Coricovac D, Trandafirescu C, Ghiulai R, Pavel I, Danciu C, Pinzaru I, Moaca A, Dragomirescu A, Popovici R.A, Dehelean C. Hollow gold nanoparticles loaded with betulin as anticancer agents. 7th BBB International Conference on Pharmaceutical Sciences. Balatonfured, Hungary, October 5-7, 2017.
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