



Marius Nicolae Mioc

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WORK EXPERIENCE

01/10/2024 – CURRENT Timișoara, Romania

PROFESSOR UMF "VICTOR BABEȘ" TIMIȘOARA, FACULTATEA DE FARMACIE

Teaching and scientific research activity

22/01/2024 – CURRENT Timișoara, Romania

ASSOCIATE PROFESSOR HABIL. (O.M.3234/22.01.2024) UMF "VICTOR BABEȘ" TIMIȘOARA, FACULTATEA DE FARMACIE

Doctoral thesis coordination in the field of Pharmacy

Address Piața Eftimie Murgu, Nr.2, Timișoara, Romania

15/02/2021 – 30/09/2024 Timișoara, Romania

ASSOCIATE PROFESSOR UMF "VICTOR BABEȘ" TIMIȘOARA, FACULTATEA DE FARMACIE

Teaching and scientific research activity

Address Piața Eftimie Murgu, Nr.2, Timișoara, Romania

15/09/2018 – 14/02/2021 Timișoara, Romania

LECTURER UMF "VICTOR BABEȘ" TIMIȘOARA, FACULTATEA DE FARMACIE

Teaching and scientific research activity

Address Piața Eftimie Murgu, Nr.2, Timișoara, Romania

17/02/2014 – 14/09/2018 Timișoara, Romania

TEACHING ASSISTANT UMF "VICTOR BABEȘ" TIMIȘOARA, FACULTATEA DE FARMACIE

Teaching and scientific research activity

Address Piața Eftimie Murgu, Nr.2, Timișoara, Romania

10/12/2012 – 07/06/2013 Timișoara, Romania

OPEN CIRCUIT PHARMACY PRACTITIONER S.C. FARMA STYL S.R.L

Pharmaceutical assistance to the population and retail trade in pharmaceutical products
Public health

Address Strada Liege, Nr. 4a, Timișoara, Romania

18/02/2013 – 31/05/2013 Timișoara, Romania

VOLUNTEERING UMF "VICTOR BABEȘ" TIMIȘOARA, FACULTATEA DE FARMACIE

Taught under supervision, the practical work of Pharmaceutical Chemistry within the Faculty of Pharmacy

Address Piața Eftimie Murgu, Nr.2, Timișoara, Romania

EDUCATION AND TRAINING

01/01/2022 – 31/12/2024 Timișoara, Romania

RESIDENT PHARMACIST, GENERAL PHARMACY UMF "Victor Babeș" Timișoara

Address Piața Eftimie Murgu, Nr.2, Timișoara, Romania

01/10/2018 – 06/03/2023 Timișoara, Romania
DOCTOR, PHARMACY UMF "Victor Babeș" Timișoara

Address Piața Eftimie Murgu, Nr.2, Timișoara, Romania

01/01/2018 – 01/01/2021 Romania
RESIDENT PHARMACIST, PHARMACEUTICAL LABORATORY UMF „Grigore T. Popa” Iași/ UMF "Victor Babeș" Timișoara

Address Strada Universității 16, Iași, Piața Eftimie Murgu Nr.2, Timișoara, Romania

01/11/2013 – 28/08/2017 Timișoara, Romania
DOCTOR, CHEMISTRY Academia Română, Institutul de Chimie "Coriolan Drăgulescu"

Address Bulevardul Mihai Viteazu Nr. 24, Timișoara, Romania

2016 – 2017 Timișoara, Romania
CERTIFICATE OF COMPLETION OF PSYCHO-PEDAGOGICAL MODULE LEVEL I, II Universitatea de Vest

Address Bulevardul Vasile Pârvan Nr. 4, Timișoara, Romania

10/2008 – 07/2013 Timișoara, Romania
PHARMACIST UMF "Victor Babeș" Timișoara, Facultatea de Farmacie

Address Piața Eftimie Murgu, Nr.2, Timișoara, Romania

2004 – 2008 Timișoara, Romania
BACHELOR'S DEGREE Colegiul Național Bănățean Timișoara

Address Bulevardul 16 Decembrie 1989 Nr. 26, Timișoara, Romania

● **LANGUAGE SKILLS**

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	B2	B2	B2	B2	B2
GERMAN	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **SKILLS**

Microsoft Office | OMEGA (OpenEye Scientific Software, Inc.) | HYBRID (OpenEye Scientific Software, Inc.) | Autodock Vina (Scripps Research Institute) | MGLTools (Scripps Research Institute) | PyRx (Scripps Research Institute) | Accelrys Discovery Studio Visualizer | Biovia Draw | Schrodinger

● **PUBLICATIONS**

ISI Publications

62 articles published in ISI indexed journals
Hirsh Index: 21 (WOS), 21 (Scopus), 23 (Google Scholar)

Abstracts at national/international conferences

20 papers presented as posters or oral presentations at national and international conferences

Books/Book Chapters

- Stefana Avram, Roxana Ghiulai, Ioana Zinuca Pavel, Marius Mioc, Roxana Babuta, Mirela Voicu, Dorina Coricovac, Corina Danciu, Cristina Dehelean, Codruta Soica. *"Phytochemicals targeting cancer angiogenesis using the chorioallantoic membrane assay"*. INTECH, Phytochemistry - Natural Products and Cancer. 2017. ISBN 978-953-51-5277-4.
- Codruta Soica, Iulia Pinzaru, Cristina Trandafirescu, Florina Andrica, Corina Danciu, Marius Mioc, Dorina Coricovac¹, Cassian Sitaru, Cristina Dehelean. *"Silver-, gold-, and iron-based metallic nanoparticles: Biomedical applications as theranostic agents for cancer"*. ELSEVIER, Design of Nanostructures for Theranostics Applications. 2018. ISBN: 978-0-12-813669-0

PROJECTS

Grants carried out as Project Director

- Grant UMFVBT, PII-C5-TC-2017 „Sinteza si analiza preliminara a unor noi derivați de 3-mercapto,1,2,4-triazol cu potențial efect antitumoral”
- Grant național post-doctoral, PN-III-P1-1.1-PD-2019-1078 „Sinteza și evaluarea de noi bioconjugati de nanoparticule de aur-triazol-triterpene, utilizate ca agenți activi în melanomul malign”

Grants carried out as a Member of the Project research team

- Proiect PN-III-P2—2.1-BG-2016-0354 - „Formulări pe bază de betulină și nanoparticule de aur în combaterea procesului de îmbătrânire a pielii”, 2016-2018.
- Proiect PN-II-RU-TE- 2014-4-0422 - „Strategii inovative de modelare in silico a promiscuitatii compusilor evaluati in testari biologice de capacitate ridicata”, 2014-2016.
- Proiect bilateral RO-FR 789/30.06.2014 - “Nanostructuri cu aurone, chalcone și extracte vegetale standardizate: dezvoltarea unui nou prototip de agent chemopreventiv și antiinflamator”, 2014-2016.
- Proiect III-C1-PCFI-2014/2016 - „Sinteza unor compuși cu potențială activitate antitumorală prin reacții de derivatizare și caracterizarea acestora prin tehnici hifenate. Evaluarea activității antiangiogenice, antineoplazice și antiinflamatoare”, 2014-2016.
- Proiect III-C5-PCFI-2017/2018 - „Potențialul antiinflamator, chemopreventiv și antitumoral în cancerul mamar al unor extracte vegetale standardizate din melissa officinalis în nanoformulări cu ciclodextrine”, 2017-2018.
- Proiect PN-III-P2-2.1-PED-2019-3067 „Nanobiostructuri inovatoare, bazate pe nanoparticule ferimagnetice conjugate cu ciclodextrine, pentru cresterea eficacitatii si reducerea toxicitatii in terapia cancerului prin hipertermie SP-magnetica”, 2019-2021.
- Proiect 1EXP/1233/30.01.2020 LUPSKINPATH “Lupeol as bioactive natural compound in the local treatment of wounds and inflammation from mild to severe pathologies: experimental evaluations and market pre-proposal”, 2020-2021.

CONFERENCES AND SEMINARS

15/10/2015 – 17/10/2015 Tlmișoara

Cursuri de pregătire postuniversitară și de educație farmaceutică continuă: “Rezistență bacteriană la antibiotice – o continuare provocare”

08/12/2016 – 10/12/2016 Tlmișoara

Cursuri de pregătire postuniversitară și de educație farmaceutică continuă: “Terapii actuale utilizate în tratamentul cancerului colorectal”

26/10/2017 – 28/10/2017

Cursuri de pregătire postuniversitară și de educație farmaceutică continuă: “Anticorpi monoclonali”

HONOURS AND AWARDS

PRECISI Awards for scientific articles – UEFISCDI

26 awards granted through the PRECISI funding program, for articles published in Q1/Q2 indexed journals according to JCR

DRIVING LICENCE

Driving Licence: B

LIST OF SCIENTIFIC PUBLISHED WORKS

I. PhD thesis:

1. “Proiectarea, sinteza și testarea unor compuși bioactivi noi, potențiale medicamente pentru căile de semnalizare în cancerul de colon”, domeniul Chimie, 2017, coordonator Prof. Univ. Dr. Ludovic Kurunczi, Institutul de Chimie “Coriolan Drăgulescu” al Academiei Române, Timișoara
2. “Design, synthesis, and biological activity assessment of potential antitumor heterocyclic triterpene derivatives”, domeniul Farmacie”, coordonator Prof. Univ. Dr. Șoica Codruța, UMF “Vitor Babeș” din Timișoara

II. Habilitation thesis

“In silico and chemical synthesis methods used for the development and formulation of pharmacologically active compounds”, 2023, UMF “Vitor Babeș” din Timișoara

III. In extenso published articles

a. Articles published in ISI indexed journals

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.
6. Andor, B.; Danciu, C.; Alexa, E.; Zupko, I.; Hoge, E.; Cioca, A.; Coricovac, D.; Pinzaru, I.; Patrascu, J.; **Mioc, M.**; et al. Germinated and Ungerminated Seeds Extract from Two Lupinus Species: Biological Compounds Characterization and In Vitro and In Vivo Evaluations. *EVIDENCE-BASED Complement. Altern. Med.* 2016, 2016, doi:10.1155/2016/7638542.
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 Pharmac-Toxicological 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.
12. Coricovac, D.; Pavel, I.Z.; Draghici, G.A.; Pinzaru, I.; Avram, S.; **Mioc, M.**; Ghiulai, R.; Soica, C.; Dehelean, C.A. In Vitro Anti-Proliferative and Antimetastatic Effects of Lupan Pentacyclic Triterpenes. *Toxicol. Lett.* 2017, 280, S273, doi:10.1016/j.toxlet.2017.07.962.
13. Pinzaru, I.; Coricovac, D.; Dehelean, C.; Moaca, E.-A.; **Mioc, M.**; Baderca, F.; Sizemore, I.; Brittle, S.; Marti, D.; Calina, C.D.; et al. Stable PEG-Coated Silver Nanoparticles - A Comprehensive Toxicological Profile. *FOOD Chem. Toxicol.* 2018, 111, 546–556, doi:10.1016/j.fct.2017.11.051.
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.
16. Macasoi, I.; **Mioc, M.**; Vaduva, D.B.; Ghiulai, R.; Mioc, A.; Soica, C.; Muntean, D.; Dumitrascu, V. In Silico Evaluation of the Antiproliferative Mitochondrial Targeted Mechanism of Action of Some Pentacyclic Triterpene Derivatives. *Rev. Chim.* 2018, 69, 3361–3363.
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. Cocystal 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.
20. Oancea, R.; Zaharia, C.; Gabor, A.G.; Sinescu, C.; **Mioc, M.**; Vaduva, D.B.; Simon, C.P.; Socoliuc, V.; Rominu, M.; Negrutiu, M.L. Imagistic Analysis of Dental Adhesives Loaded with Nanoparticles Used on Teeth Sealing of Pits and Fissures with Resin Based Materials. *Mater. Plast.* 2019, 56, 449–453.
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.

24. Ghiulai, R.; Roșca, O.J.; Antal, D.S.; **Mioc, M.**; Mioc, A.; Racoviceanu, R.; Macașoi, I.; Olariu, T.; Dehelean, C.; Crețu, O.M.; et al. Tetracyclic and Pentacyclic Triterpenes with High Therapeutic Efficiency in Wound Healing Approaches. *Molecules* 2020, 25, 5557, doi:10.3390/molecules25235557.
25. Macasoi, I.; Mioc, A.; **Mioc, M.**; Racoviceanu, R.; Soica, I.; Cheveresan, A.; Dehelean, C.; Dumitrascu, V. Targeting Mitochondria through the Use of Mitocans as Emerging Anticancer Agents. *Curr. Med. Chem.* 2020, 27, 5730–5757, doi:10.2174/0929867326666190712150638.
26. Farcas, C.G.; Dehelean, C.; Pinzaru, I.A.; **Mioc, M.**; Socoliuc, V.; Moaca, E.A.; Avram, S.; Ghiulai, R.; Coricovac, D.; Pavel, I.; et al. Thermosensitive Betulinic Acid-Loaded Magnetoliposomes: A Promising Antitumor Potential for Highly Aggressive Human Breast Adenocarcinoma Cells Under Hyperthermic Conditions. *Int. J. Nanomedicine* 2020, 15, 8175–8200, doi:10.2147/IJN.S269630.
27. Kazakova, O.; Lopatina, T.; Giniyatullina, G.; **Mioc, M.**; Soica, C. Antimycobacterial Activity of Azepanobetulin and Its Derivative: In Vitro, in Vivo, ADMET and Docking Studies. *Bioorg. Chem.* 2020, 104, doi:10.1016/j.bioorg.2020.104209.
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.
29. Pancu, D.F.; Scurtu, A.; Macasoi, I.G.; Marti, D.; **Mioc, M.**; Soica, C.; Coricovac, D.; Horhat, D.; Poenaru, M.; Dehelean, C. Antibiotics: Conventional Therapy and Natural Compounds with Antibacterial Activity-A Pharmac-Toxicological Screening. *ANTIBIOTICS-BASEL* 2021, 10, doi:10.3390/antibiotics10040401.
30. Kazakova, O.; Rubanik, L.; Lobov, A.; Poleshchuk, N.; Baikova, I.; Kapustina, Y.; Petrova, A.; Korzun, T.; Lopatina, T.; Fedorova, A.; **Mioc, M.**; et al. Synthesis of Erythrodiol C-Ring Derivatives and Their Activity against Chlamydia Trachomatis. *Steroids* 2021, 175, doi:10.1016/j.steroids.2021.108912.
31. Kazakova, O.; Mioc, A.; Smirnova, I.; Baikova, I.; Voicu, A.; Vlaia, L.; Macașoi, I.; **Mioc, M.**; Drăghici, G.; Avram, Ș.; et al. 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, 10967, doi:10.3390/ijms222010967.
32. Radulescu, M.; Jianu, C.; Lukinich-Gruia, A.T.; **Mioc, M.**; Mioc, A.; Soica, C.; Stana, L.G. Chemical Composition, In Vitro and In Silico Antioxidant Potential of Melissa Officinalis Subsp. Officinalis Essential Oil. *ANTIOXIDANTS* 2021, 10, doi:10.3390/antiox10071081.
33. Kazakova, O.; Șoica, C.; Babaev, M.; Petrova, A.; Khusnutdinova, E.; Poptsov, A.; Macașoi, I.; Draghici, G.; Avram, Ștefana; Vlaia, L.; **Mioc, M.**; et al. 3-Pyridinylidene Derivatives of Chemically Modified Lupane and Ursane Triterpenes as Promising Anticancer Agents by Targeting Apoptosis. *Int. J. Mol. Sci.* 2021, 22, doi:10.3390/ijms221910695.
34. Minda, D.; Mioc, A.; Banciu, C.; Soica, C.; Racoviceanu, R.; **Mioc, M.**; Macasoi, I.; Avram, S.; Voicu, A.; Motoc, A.; et al. Cyclodextrin Dispersion of Mebendazole and Flubendazole Improves In Vitro Antiproliferative Activity. *PROCESSES* 2021, 9, doi:10.3390/pr9122185.
35. Kazakova, O.; Racoviceanu, R.; Petrova, A.; **Mioc, M.**; Militaru, A.; Udrescu, L.; Udrescu, M.; Voicu, A.; Cummings, J.; Robertson, G.; et al. New Investigations with Lupane Type A-Ring Azepane Triterpenoids for Antimycobacterial Drug Candidate Design. *Int. J. Mol. Sci.* 2021, 22, doi:10.3390/ijms222212542.
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.

37. Jianu, C.; Stoin, D.; Cocan, I.; David, I.; Pop, G.; Lukinich-Gruia, A.T.; **Mioc, M.**; Mioc, A.; Şoica, C.; Muntean, D.; et al. In Silico and In Vitro Evaluation of the Antimicrobial and Antioxidant Potential of Mentha × Smithiana R. GRAHAM Essential Oil from Western Romania. *Foods* (Basel, Switzerland) 2021, 10, 815, doi:10.3390/foods10040815.
38. Jianu, C.; Golet, I.; Stoin, D.; Cocan, I.; Bujanca, G.; Misca, C.; **Mioc, M.**; Mioc, A.; Soica, C.; Lukinich-Gruia, A.T.; et al. Chemical Profile of Ruta Graveolens, Evaluation of the Antioxidant and Antibacterial Potential of Its Essential Oil, and Molecular Docking Simulations. *Appl. Sci.* 2021, 11, doi:10.3390/app112411753.
39. Milan, A.; Mioc, A.; Prodea, A.; **Mioc, M.**; Buzatu, R.; Ghiulai, R.; Racoviceanu, R.; Caruntu, F.; Şoica, C. The Optimized Delivery of Triterpenes by Liposomal Nanoformulations: Overcoming the Challenges. *Int. J. Mol. Sci.* 2022, 23, doi:10.3390/ijms23031140.
40. Smirnova, I.; Draghici, G.; Kazakova, O.; Vlaia, L.; Avram, S.; Mioc, A.; **Mioc, M.**; Macasoi, I.; Dehelean, C.; Voicu, A.; et al. Hollongdione Arylidene Derivatives Induce Antiproliferative Activity against Melanoma and Breast Cancer through Pro-Apoptotic and Antiangiogenic Mechanisms. *Bioorg. Chem.* 2022, 119, doi:10.1016/j.bioorg.2021.105535.
41. Nistor, G.; **Mioc, M.**; Mioc, A.; Balan-Porcarasu, M.; Racoviceanu, R.; Prodea, A.; Milan, A.; Ghiulai, R.; Semenescu, A.; Dehelean, C.; et al. The C30-Modulation of Betulinic Acid Using 1,2,4-Triazole: A Promising Strategy for Increasing Its Antimelanoma Cytotoxic Potential. *Molecules* 2022, 27, 7807, doi:10.3390/molecules27227807.
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.
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b. Articles published in BDI indexed journals

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

IV. Coneference presentations

a. Oral presentations

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.
2. Marius Mioc, Roxana Ghiulai, Gabriela Nistor, Roxana Racoviceanu, Codruta Soica. Structural design of triterpenic acid 1,2,4-triazole linked gold nanoparticle bioconjugates, as potential treatment for malignant melanoma. III. Symposium of Young Researchers on Pharmaceutical Technology, Biotechnology and Regulatory Science January 20-22nd 2021 Szeged, Hungary
3. Gabriela Nistor, Marius Mioc, Roxana Ghiulai, Roxana Racoviceanu, Codruta Soica. Synthesis of betulinic acid 1,2,4-triazole derivatives suitable for cyclodextrin inclusion complex formulation. III. Symposium of Young Researchers on Pharmaceutical Technology, Biotechnology and Regulatory Science January 20-22nd 2021 Szeged, Hungary
Roxana Ghiulai, Marius Mioc, Gabriela Nistor, Roxana Racoviceanu, Codruta Soica. Design and synthesis of betulinic acid gold nano-particles with enhanced pharmaceutical properties. III. Symposium of Young Researchers on Pharmaceutical Technology, Biotechnology and Regulatory Science January 20-22nd 2021 Szeged, Hungary

b. Posters

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 Minda1, 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, Giulai 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, Giulai 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.
10. Roxana Ghiulai, Dorina Coricovaac, Alexandra Gruia, Codruta Soica, Cristina Trandafirescu, **Marius Mioc**, Florina Andrica, Cristina Dehelean. A rapid analytical method for the identification of betulinic acid in sample solutions. International workshop of the Romanian-French bilateral project PN II-CT-789/30.06.2014 – Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity. Timișoara, November 23, 2016.
11. Florina-Maria Andrica, Cristina Dehelean, Cristina Trandafirescu, Roxana Ghiulai, Roxana Babuta, **Marius Mioc**, Codruta Soica. Protective effects of Spirulina platensis against heavy metal toxicity. International workshop of the Romanian-French bilateral project PN II-CT-789/30.06.2014 – Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity. Timișoara, November 23, 2016.
12. **Marius Mioc**, Cristina Trandafirescu, Roxanda Ghiulai, Florina Andrica, Roxana Babuta, Cristina Dehelean, Codruta Soica. Docking-based virtual screening of anilino-pyrimidine derivatives for the purpose of inhibiting AKT/PKB kinase. International workshop of the Romanian-French bilateral project PN II-CT-789/30.06.2014 – Phytocompounds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity. Timișoara, November 23, 2016.
13. Ramona Curpăn, Sorin Avram, Alina Bora, Liliana Halip, Bogdan Dragoș, **Marius Mioc**, Ludovic Kurunczi. Innovative cheminformatics tool to predict biological promiscuity. The 9th Edition of the Symposium with International Participation - New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection. Timișoara, June 09-10, 2016.
14. Sorin Avram, Alina Bora, Ramona Curpăn, Liliana Halip, Bogdan Dragoș, **Marius Mioc**, Ludovic Kurunczi. Versatile biological fingerprints for mining large chemical libraries. The 9th Edition of the Symposium with International Participation - New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection. Timișoara, June 09-10, 2016.
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16. Watz Claudia, Avram Stefana, Ghiulai Roxana, Racoviceanu Roxana, Mioc Marius and Soica Codruta. IN VITRO AND IN OVO WOUND HEALING EVALUATION OF LUPEOL AND ITS STEARATE DERIVATIVE IN A CYCLODEXTRIN FORMULATION. Medicinal Chemistry and Chemical Biology in Drug Discovery: The Pharma Perspective, 2022 July, Barcelona Science Park
17. Mioc Marius, Racoviceanu Roxana, Ghiulai Roxana, Prodea Alexandra, Milan Andreea and Soica Codruta. DESIGN, SYNTHESIS AND CHARACTERIZATION OF NOVEL TRITERPENE-1,2,4-TRIAZOLE DERIVATIVES SUITABLE FOR GOLD NANOPARTICLE CONJUGATION. Medicinal Chemistry and Chemical Biology in Drug Discovery: The Pharma Perspective, 2022 July, Barcelona Science Park

