**LISTA DE LUCRĂRI ȘTIINȚIFICE**

**MILAN ANDREEA MARIA**

1. **ARTICOLE PUBLICATE IN EXTENSO**

**A.1. Articole în reviste cotate ISI cu factor de impact**

1. Prodea, A.; **Milan, A**.; Mioc, M.; Mioc, A.; Oprean, C.; Racoviceanu, R.; Negrea-Ghiulai, R.; Mardale, G.; Avram, Ș.; Balan-Porcărașu, M.; Rotunjanu S., Trandafirescu C., Şoica I., Șoica C. Novel Betulin-1,2,4-Triazole Derivatives Promote In Vitro Dose-Dependent Anticancer Cytotoxicity. Processes 2024, 12, 24. https://doi.org/10.3390/pr12010024; EISSN: 2227-9717; FI (2022)= 3.5
2. Rotunjanu, S.; Racoviceanu, R.; Mioc, A.; **Milan, A**.; Negrea-Ghiulai, R.; Mioc, M.; Marangoci, N.L.; Şoica, C. Newly Synthesized CoFe2−xDyxO4 (x = 0; 0.1; 0.2; 0.4) Nanoparticles Reveal Promising Anticancer Activity against Melanoma (A375) and Breast Cancer (MCF-7) Cells. Int. J. Mol. Sci. 2023, 24, 15733. https://doi.org/10.3390/ijms242115733; EISSN: 1422-0067, FI (2022)=5.6
3. 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, 781. https://doi.org/10.3390/pr11030781; EISSN: 2227-9717; FI (2022)= 3.5
4. 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. https://doi.org/10.3390/molecules28010421; EISSN: 1420-3049; FI (2022)= 4.6
5. Nistor, G.; Mioc, A.; Mioc, M.; Balan-Porcarasu, M.; Ghiulai, R.; Racoviceanu, R.; Avram, Ș.; Prodea, A.; Semenescu, A.; **Milan, A.**; Dehelean, C.; Șoica, C. Novel Semisynthetic Betulinic Acid−Triazole Hybrids with In Vitro Antiproliferative Potential. Processes 2023, 11, 101. https://doi.org/10.3390/pr11010101; EISSN: 2227-9717; FI (2022)= 3.5
6. Nistor, G.; Mioc, M.; Mioc, A.; Balan-Porcarasu, M.; Racoviceanu, R.; Prodea, A.; **Milan, A.**; Ghiulai, R.; Semenescu, A.; Dehelean, C.; Șoica, C. The C30-Modulation of Betulinic Acid Using 1,2,4-Triazole: A Promising Strategy for Increasing Its Antimelanoma Cytotoxic Potential. Molecules 2022, 27, 7807. https://doi.org/10.3390/molecules27227807; EISSN: 1420-3049; FI (2022)= 4.6
7. Ghiulai, R.; Mioc, A.; Racoviceanu, R.; Mioc, M.; **Milan, A.**; Prodea, A.; Semenescu, A.; Dehelean, C.; Barbu Tudoran, L.; Avram, Ș.; Trandafirescu, C.; Șoica, C. The Anti-Melanoma Effect of Betulinic Acid Functionalized Gold Nanoparticles: A Mechanistic In Vitro Approach. Pharmaceuticals 2022, 15, 1362. https://doi.org/10.3390/ph15111362; EISSN: 1424-8247; FI (2022)= 4.6
8. Ghiulai, R.; Mioc, M.; Racoviceanu, R.; Prodea, A.; **Milan, A.**; Coricovac, D.; Dehelean, C.; Avram, Ș.; Zamfir, A.D.; Munteanu, C.V.A.;Ivan, V.; Şoica, C. Structural Investigation of Betulinic Acid Plasma Metabolites by Tandem Mass Spectrometry. Molecules 2022, 27, 7359. https://doi.org/10.3390/molecules27217359; EISSN: 1420-3049; FI (2022)= 4.6
9. Nistor, G.; Trandafirescu, C.; Prodea, A.\*; **Milan, A.\***; Cristea, A.; Ghiulai, R.; Racoviceanu, R.; Mioc, A.; Mioc, M.; Ivan, V.; Șoica, C. Semisynthetic Derivatives of Pentacyclic Triterpenes Bearing Heterocyclic Moieties with Therapeutic Potential. Molecules 2022, 27, 6552. https://doi.org/10.3390/molecules27196552; EISSN: 1420-3049; FI (2022)= 4.6; \* autor de corespondență cu contribuție egală
10. Mioc, M.; Mioc, A.; Prodea, A.; **Milan, A.**; Balan-Porcarasu, M.; Racoviceanu, R.; Ghiulai, R.; Iovanescu, G.; Macasoi, I.; Draghici, G.; Dehelean, C.; Soica, C. Novel Triterpenic Acid—Benzotriazole Esters Act as Pro-Apoptotic Antimelanoma Agents. Int. J. Mol. Sci. 2022, 23, 9992. https://doi.org/10.3390/ijms23179992; ISSN: 1661-6596; FI (2022)= 5.6
11. Mioc, M.; Prodea, A.; Racoviceanu, R.; Mioc, A.; Ghiulai, R.; **Milan, A.**; Voicu, M.; Mardale, G.; Șoica, C. Recent Advances Regarding the Molecular Mechanisms of Triterpenic Acids: A Review (Part II). Int. J. Mol. Sci. 2022, 23, 8896. https://doi.org/10.3390/ijms23168896; ISSN: 1661-6596; FI (2022)= 5.6;
12. 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. https://doi.org/10.3390/ijms23147740; ISSN: 1661-6596; FI (2022)= 5.6, \*\* contribuție egală cu primul autor
13. **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, 1140. https://doi.org/10.3390/ijms23031140; ISSN: 1661-6596; FI (2022)= 5.6
14. 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, 736. https://doi.org/10.3390/ijms23020736; ISSN: 1661-6596; FI (2022)= 5.6
15. Hancu, G.; Lupu, D.; **Milan, A.;** Budau, M.; Barabas-Hajdu, E. Enantioselective analysis of venlafaxine and its active metabolites: A review on the separation methodologies. Biomed. Chromatogr. 2020, 35, 1. https://doi.org/10.1002/bmc.4874; ISSN: 0269-3879; FI (2020)= 1.9
16. **Milan, A.**; Hancu, G.; Lupu, D.; Budău, M.; Garaj, V.; Kelemen, H. Venlafaxine Chiral Separation by Capillary Electrophoresis Using Cyclodextrin Derivatives as Chiral Selector and Experimental Design Method Optimization. Symmetry 2020, 12, 849. https://doi.org/10.3390/sym12050849; EISSN: 2073-8994; FI (2020)= 2.71
17. Tanase, C.; Nișca, A.; Mirica, A.; **Milan, A.**; Boz, I. Wood Bark as Valuable Raw Material for Compounds with a Bioregulator Effect in Lemon Balm (Melissa officinalis L.) Plants. Appl. Sci. 2019, 9, 3148. https://doi.org/10.3390/app9153148; EISSN: 2076-3417; FI (2019)= 2.47

**A.2. Articole în reviste indexate BDI**

1. Ulici, A.; **Milan, A\*\***.; Mioc, M.; Ghiulai, R.; Racoviceanu, R.; Șoica, C. Ring-Modified Triterpene Derivatives as Potential Pharmacological Active Compounds. Timisoara\_Med 2021, 2020, 7; indexat in Directory of Open Access Journals: https://doaj.org/toc/1583-526X, \*\* contribuție egală cu primul autor.
2. **Lucrări/studii publicate în rezumat**
3. Prodea, A.; **Milan, A.**; Mioc, M.; Racoviceanu, R.; Trandafirescu, C.; Mioc, A.; Pârvănescu, R.; Ghiulai; R.; Mardale; G.; Șoica, C.; Chemical heterocyclic derivatization of pentacyclic triterpenes- a promising strategy for drug development; Workshop New trends in pharmaceutical research; Timișoara 31.03.2023; p. 37-38
4. Mioc, A.; Mardale; G.; Mioc, M.; Racoviceanu, R.; **Milan, A.**; Prodea, A.; Ghiulai; R.; Șoica, C.; Triterpenic acid gold nanoparticles: an in vitro approach; New trends in pharmaceutical research; Timișoara 31.03.2023; p. 21-22
5. **Milan, A.**; Prodea, A.; Mioc, M.; Racoviceanu, R.; Trandafirescu, C.; Mioc, A.; Pârvănescu, R.; Ghiulai; R.; Șoica, C.; The esterification of triterpenic acids: a promising biological approach; New trends in pharmaceutical research; Timișoara 31.03.2023; p. 25-26
6. Ghiulai; R.; Mioc, M.; Prodea, A.; **Milan, A.**; Racoviceanu, R.; Coricovac, D.; Mioc, A.; Suciu; L.; Trandafirescu, C.; Șoica, C.; Screeninf of hydroxylated phase I in vivo metabolites of betulinic acid; New trends in pharmaceutical research; Timișoara 31.03.2023; p. 23-24
7. Mioc, M.; Nistor, G.; Negrea-Ghiulai; R.; Racoviceanu, R.; Prodea, A.; **Milan, A**.; Mioc, A.; Trandafirescu, C.; Balan-Porcarasu, M.; Șoica, C.; The antimelanoma cytotoxic potential of triazole bearing triterpenic acid derivatives; Congresul Național de Farmacie 2023 Ediția a XIX-a, Farmacia azi: de la tradiție la interdisciplinaritate și inteligență artificială; Cluj-Napoca; 27-29 Septembrie 2023; p. 22; ISBN 978-606-075-203-5
8. Negrea-Ghiulai; R.; Mioc, M.; Avram, Ș.; Prodea, A.; Racoviceanu, R.; **Milan, A.**; Mioc, A.; Coricovac, D.; Zamfir, A.; Șoica, C.; Phase ii in vivo metabolites of betulic acid; Congresul Național de Farmacie 2023 Ediția a XIX-a, Farmacia azi: de la tradiție la interdisciplinaritate și inteligență artificială; Cluj-Napoca; 27-29 Septembrie 2023; p. 88; ISBN 978-606-075-203-5
9. Racoviceanu, R.; Negrea-Ghiulai; R.; Mioc, A.; Mioc, M.; Rotunjanu, S.; Prodea, A.; **Milan, A.**; Trandafirescu, C.; Șoica, C.; Synthesis, characterisation and cytotoxic evaluation of CoFe2-xDyxO4 complexes with ɣ-cyclodextrin; Congresul Național de Farmacie 2023 Ediția a XIX-a, Farmacia azi: de la tradiție la interdisciplinaritate și inteligență artificială; Cluj-Napoca; 27-29 Septembrie 2023; p. 38; ISBN 978-606-075-203-5
10. Racoviceanu, R.; Mioc, M.; Prodea, A.; **Milan, A**.; Roșca, O.J.; Trandafirescu, C.; Mioc, A.; Ghiulai, R.;Șoica, C.; Evaluation of Galium verum Hydro-Alcoholic Extract; Current techniques for obtaining, characterizing and testing plant resources and derived products; Timișoara; 2023; p. 26; ISBN 978-606-786-300-0
11. Mioc, M.; Racoviceanu, R.; Ghiulai, R.; Prodea, A.; **Milan, A**.; Soica, C.; DESIGN, SYNTHESIS AND CHARACTERIZATION OF NOVEL TRITERPENE-1,2,4-TRIAZOLE DERIVATIVES SUITABLE FOR GOLD NANOPARTICLE CONJUGATION; VII SEQT Summer School - MEDICINAL CHEMISTRY AND CHEMICAL BIOLOGY IN DRUG DISCOVERY: THE PHARMA PERSPECTIVE, 2022 July, 19-21, Barcelona Science Park; p. 52
12. Ulici, A.; **Milan, A**.; Racoviceanu, R.; Ghiulai, R.; Mioc, M.; Soica, C.; Docking based drug-cyclodextrin complex design, for pentacyclic triterpenes formulation. Scholars International Webinar on Pharmacology and Toxicology THEME: "Novel insights in Therapeutic Approaches in Pharmacology and Toxicology", Webinar 14-15 April 2021
13. **Milan, A**.; Ulici, A.; Racoviceanu, R.; Ghiulai, R.; Mioc, M.; Soica, C.; Docking based drug-cyclodextrin complex design, for pentacyclic triterpenoid acid formulation, using fatty acid ester derivatives. Scholars International Webinar on Pharmacology and Toxicology THEME: "Novel insights in Therapeutic Approaches in Pharmacology and Toxicology", Webinar 14-15 April 2021
14. Racoviceanu, R.; Mioc, M.; Ghiulai, R.; Ulici, A.; **Milan, A.**; Șoica, C. Sinteza și caracterizarea nanoparticulelor de magnetită dopată cu cobalt destinate utilizării în hipertermie. Congresul Național de Farmacie Ediția a XVIII-a, Farmacia: de la inovare la bună practică farmaceutică; 15-17 Septembrie 2021. ISBN 978-606-10-2144-4
15. Mioc, M.; Ghiulai, R.; Racoviceanu, R.; Prodea, A.; **Milan, A.**; Șoica, C.; Sinteza și caracterizarea unui nou derivat amidic de acid betulinic cu amino-triazol, cu potențial efect antiproliferativ. Congresul Național de Farmacie Ediția a XVIII-a, Farmacia: de la inovare la bună practică farmaceutică; 15-17 Septembrie 2021; ISBN 978-606-10-2144-4
16. Ghiulai, R.; Mioc, M.; Racoviceanu, R.; Trandafirescu, C. ; Ulici, A.; **Milan, A.** ; Soica, C.; Screening of pentacyclic triterpenes from Birch sap-; Applications of experimental methods in the analysis of cosmetics based on active ingredients; Timișoara; 2020; p. 28-29; ISBN: 978-606-786-156-3
17. Mioc, M.; Ulici, A.; **Milan, A.**; Raicoviceanu, R.; Ghiulai,R.; Șoica C. Synthesis and preliminary characterization of betulinic acid-1,2,4- triazol amide derivative; Applications of experimental methods in the analysis of cosmetics based on active ingredients; Timișoara; 2020; p. 45-46; ISBN: 978-606-786-156-3
18. Ulici, A.; **Milan, A.**; Racoviceanu, R.; Ghiulai, R.; Mioc, M.; Șoica, C.. A-ring modified triterpene inclusion complex with hydroxypropyl gamma-cyclodextrin; Applications of experimental methods in the analysis of cosmetics based on active ingredients; Timișoara; 2020; p. 44; ISBN: 978-606-786-156-3
19. **Milan, A.**; Ulici, A.; Mioc, M.; Ghiulai, R.; Racoviceanu, R.; Şoica, C. Pentacyclic triterpene derivatives synthesis, suitable for cyclodextrin inclusion complex formulation; Applications of experimental methods in the analysis of cosmetics based on active ingredients; Timișoara; 2020; p. 47-48; ISBN: 978-606-786-156-3
20. **Milan, A.**; Ulici, A.; Mioc, M.; Racoviceanu, R.; Ghiulai, R.; Şoica, C.; The determination of anti-cancer and antioxidant activity of Melissa officinalis L.; Plants between nature and health; Timișoara 2020; p.39; ISBN 978-606-786-253-9
21. Prodea, A.; **Milan, A.**; Racoviceanu, R.; Ghiulai, R.; Mioc, M.; Şoica, C.; Potential cytotoxic activity of an ethanolic extract of Salvia officinalis.; Plants between nature and health; Timișoara 2020; p. 40; ISBN 978-606-786-253-9
22. Racoviceanu, R.; Ghiulai, R.; Prodea, A.; **Milan, A.**; Mioc, M.; Şoica, C.; Evaluation of Boswellia Serrata hydro-alcoholic extracts.; Plants between nature and health; Timișoara 2020; p. 41; ISBN 978-606-786-253-9