



Curriculum Vitae

Personal information

Name / Surname **Negrea-Ghiulai Roxana Maria**

Email roxana.ghiulai@umft.ro

Citizenship Romanian

Workplace

**University Professor, Pharmacology-Pharmacotherapy, Faculty of Pharmacy, Department II,
U.M.F. "Victor Babes" Timisoara**

Professional experience

Period September 2024- present

Position or position held Professor, Pharmacology-Pharmacotherapy, Department II

Main activities and responsibilities Defending courses and laboratory works in the discipline of Pharmacology-Pharmacotherapy for the students of the Faculty of Pharmacy, Romanian and French sections and Pharmacy Assistant;
Scientific research

Employer's name and address

Type of activity or sector of activity U.M.F. "Victor Babes" Timisoara, Faculty of Pharmacy, Pta Murgu Eftimie nr. 2, Timișoara 300041
Medical-pharmaceutical higher education unit

Period September 2022- September 2024

Position or position held Associate Professor, Pharmacology-Pharmacotherapy, Department II

Main activities and responsibilities Defending courses and laboratory works in the discipline of Pharmacology-Pharmacotherapy for the students of the Faculty of Pharmacy, Romanian and French sections and Pharmacy Assistant;
Scientific research

Employer's name and address

Type of activity or sector of activity U.M.F. "Victor Babes" Timisoara, Faculty of Pharmacy, Pta Murgu Eftimie nr. 2, Timișoara 300041
Medical-pharmaceutical higher education unit

Period September 2020- September 2022

Position or position held Associate Professor, Pharmaceutical Chemistry, Department II

Main activities and responsibilities Defending courses and laboratory works in the discipline of Pharmaceutical Chemistry for the students of the Faculty of Pharmacy, Romanian and French sections and Pharmacy Assistance;
Scientific research

Employer's name and address

Type of activity or sector of activity U.M.F. "Victor Babes" Timisoara, Faculty of Pharmacy, Pta Murgu Eftimie nr. 2, Timișoara 300041
Medical-pharmaceutical higher education unit

Period September 2019- present

Position or position held Clinical Pharmacist

Main activities and responsibilities Providing clinical pharmacy services within the hospital

Employer's name and address	Timisoara Municipal Emergency Clinical Hospital, 1 Hector Street, Timisoara, 300041
Type of activity or sector of activity	Health
Period	September 2016- September 2020
Position or position held	Lecturer, Pharmaceutical Chemistry, Department II
Main activities and responsibilities	Defending courses and laboratory works in the discipline of Pharmaceutical Chemistry for the students of the Faculty of Pharmacy, Romanian and French sections and Pharmacy Assistance; Scientific research
Employer's name and address	U.M.F. "Victor Babes" Timisoara, Faculty of Pharmacy, Pta Murgu Eftimie nr. 2, Timișoara 300041
Type of activity or sector of activity	Medical-pharmaceutical higher education unit
Period	September 2014 – September 2016
Position or position held	Assistant Professor, Pharmaceutical Chemistry, Department II
Main activities and responsibilities	Defending laboratory works in the disciplines of Pharmaceutical Chemistry and Toxicology, Romanian and French; Scientific research activity
Employer's name and address	U.M.F. "Victor Babes" Timisoara, Faculty of Pharmacy, Pta Murgu Eftimie nr. 2, Timișoara 300041
Type of activity or sector of activity	Medical-pharmaceutical higher education unit
Period	September 2010 – March 2012
Position or position held	Pharmacist
Main activities and responsibilities	Provision of pharmaceutical services in community pharmacy
Employer's name and address	S.C. SIEPCOFAR S.A. - "Dona" Pharmacies Timisoara, Romania
Type of activity or sector of activity	Health; Open Circuit Pharmacy
Period	February 2009 – March 2010
Position or position held	Pharmacist
Main activities and responsibilities	Provision of pharmaceutical services in community pharmacy
Employer's name and address	"Cynara" Pharmacy, str. Gh. Lazăr, Timisoara, Romania
Type of activity or sector of activity	Health; Open Circuit Pharmacy
Period	January 2008–December 2008
Position or position held	Pharmacist
Main activities and responsibilities	Provision of pharmaceutical services in community pharmacy
Employer's name and address	"Hygeia" Pharmacy Str. F. Mercy Timisoara, Romania
Type of activity or sector of activity	Health; Open Circuit Pharmacy
Period	January 2008 – January 2011
Position or position held	Resident pharmacist specializing in Clinical Pharmacy
Main activities and responsibilities	Going through the curriculum and training stages in the specialty
Employer's name and address	Timișoara County Emergency Clinical Hospital, 156 Liviu Rebreanu Boulevard, Timișoara 300723
Type of activity or sector of activity	Health

Education and training

Period	December 2023
Qualification / diploma obtained	Certificate of habilitation in the field of university doctoral studies Pharmacy O.M 323/ 22.01.2024
Name and type of educational institution	"Victor Babes" University of Medicine and Pharmacy, Timisoara
Period	November 2018-November 2022
Qualification / diploma obtained	Doctor of Pharmacy Diploma
Main areas studied	Fundamental pharmaceutical research, instrumental analysis and advanced biomedical
Name and type of educational institution	"Victor Babes" University of Medicine and Pharmacy, Timisoara
Period	October 2017 - June 2019
Qualification / diploma obtained	Master's Degree
Main areas studied	Phytopharmaceutical Biotechnologies
Name and type of educational institution	University of Agricultural Sciences and Veterinary Medicine of Banat Timisoara
Period	October 2016 - July 2017
Qualification / diploma obtained	Psychopedagogical Training Certificate
Main areas studied	Psycho-pedagogical training level I and II
Name and type of educational institution	West University of Timisoara
Period	June 2016
Qualification / diploma obtained	Primary Pharmacist Clinical Pharmacy
Name and type of educational institution	"Carol Davila" University of Medicine and Pharmacy, Bucharest
Period	November 2010 - June 2014
Qualification / diploma obtained	Doctor of Medicine Diploma
Main areas studied	Fundamental Biomedical Research, Advanced Instrumental Analysis
Name and type of educational institution	"Victor Babes" University of Medicine and Pharmacy, Timisoara
Period	January 2008 – January 2011
Qualification / diploma obtained	Pharmacist specialist in Clinical Pharmacy
Main areas studied	Specialized training curriculum
Name and type of educational institution	"Victor Babes" University of Medicine and Pharmacy, Timisoara
Period	October 2002 – September 2007
Qualification / diploma obtained	Pharmacist

Main areas studied Pharmacology, Pharmaceutical Chemistry, Toxicology, Pharmaceutical Technology, Biochemistry, Clinical Pathology

Name and type of educational institution Faculty of Pharmacy, "Victor Babes" University of Medicine and Pharmacy, Timișoara

Personal skills and competencies

Mother tongue

Romanian

Known foreign languages

English, French, German

Self assessment

European level

English

French

German

Comprehension		Spoken		Written
Listening skills	Reading skills	Interaction	Expression	
Very good	Very good	Very good	VeryWell	Very good
Very good	Very good	Very good	Very good	Very good
Well	Well	Well	Well	Well

Social skills and abilities

Communicative, sociable, adaptable, responsible, positive attitude; teamwork, mediation skills, intercultural skills

Organizational skills and abilities

Prioritization of activities, dynamism, attention to detail

Technical skills and abilities

Activity in the research laboratory, preparation of magistral and officinal medicines, advanced electrometal analysis

Computer skills and knowledge

MS Windows (Word, Power Point, Excel)

Other skills and competencies

Hobbies: traveling, photography, reading, music, sports

Driver's license

Category B

Information

Publications in extenso in impact factor journals

1. Roxana Ghiulai , Marius Mioc , Roxana Racoviceanu , Alexandra Prodea , Andreea Milan, Dorina Coricovac , Cristina Dehelean , Stefana Avram , Alina D. Zamfir, Cristian V. A. Munteanu , Viviana Ivan Codruta Soica. Structural Investigation of Betulinic Acid Plasma Metabolites by Tandem Mass Spectrometry. *Molecules* 2022, 27, 7359. <https://doi.org/10.3390/molecules27217359>.
2. Roxana Ghiulai, Alexandra Mioc, Roxana Racoviceanu, Marius Mioc, Andreea Milan, Alexandra Prodea, Alexandra Semenescu, Cristina Dehelean, Lucian Barbu Tudoran, Ștefana Avram, Cristina Trandafirescu, Codruța Șoica. 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>
3. Daliana Minda*, Roxana Ghiulai*, Christian Dragoș Bănciu, Ioana Zinuca Pavel, Corina Dănciu, Roxana Racoviceanu, Codruta Soica, Oana Daniela Budu, Delia Muntean, Zorita Diaconeasa, Cristina Adriana Dehelean, Stefana Avram (*equal contribution). Phytochemical Profile, Antioxidant and Wound Healing Potential of Three Artemisia Species: In Vitro and In Ovo Evaluation. *Appl. Sci.* 2022, 12, 1359. <https://doi.org/10.3390/app12031359>
4. Codruta Soica, Mirela Voicu, Roxana Ghiulai*, Cristina Dehelean, Roxana Racoviceanu, Cristina Trandafirescu, Oana-Janina Rosca, Gabriela Nistor, Marius Mioc, Alexandra Mioc (*corresponding author). Natural Compounds in Sex Hormone-Dependent Cancers: The Role of Triterpenes as Therapeutic Agents. *Front. Endocrinol.* 2021 11:612396. doi:10.3389/fendo.2020.612396
5. Florin Borcan, Adél, Cristina A. Dehelean, Zoltán Dudás, Roxana Ghiulai*, Andrada Iftode, Roxana Racoviceanu, Codruta M. Soica (*corresponding author). Design and Assessment of a Polyurethane Carrier Used for the Transmembrane Transfer of Acyclovir. *Nanomaterials* 2021, 11, 51. <https://dx.doi.org/10.3390/nano11010051>
6. Roxana Racoviceanu, Cristina Trandafirescu, Mirela Voicu, Roxana Ghiulai *, Florin Borcan, Cristina Dehelean, Claudia Watz, Zoltán Aigner, Rita Ambrus, Dorina Elena Coricovac, Denisa Cîrcioban, Alexandra Mioc, Camelia Alexandrina Szuhaneck, Codruta Soica (*corresponding author). Solid Polymeric Nanoparticles of Albendazole: Synthesis, Physico-Chemical Characterization and Biological Activity. *Molecules* 2020, 25, 5130; doi:10.3390/molecules25215130

7. 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
8. Roxana Ghiulai, Stefana Avram, Dana Stoian, Ioana Zinuca Pavel, Dorina Coricovac, Camelia Oprean, Laurian Vlase, Claudia Farcas, Marius Mioc, Daliana Minda, Andrei Motoc, Camelia Szuhaneck, Corina Danciu, Codruta Soica, Laurentiu Sima. Lemon Balm Extracts Prevent Breast Cancer Progression *In Vitro* And *In Ovo* On Chorioallantoic Membrane Assay. *Evidence-Based Complementary and Alternative Medicine* 2020, Article ID 6489159, 17 pages. <https://doi.org/10.1155/2020/6489159>
9. Mirela Nicolov *, Roxana M. Ghiulai *, Mirela Voicu, Marius Mioc, Adina Octavia Duse, Roxana Roman, Rita Ambrus, Istvan Zupko, Elena Alina Moaca, Dorina E. Coricovac, Claudia Farcas, Roxana Marcela Racoviceanu, Corina Danciu, Cristina-Adriana Dehelean, Codruta Soica (* equal contribution). Cocrystal Formation of Betulinic Acid and Ascorbic Acid: Synthesis, Physico-Chemical Assessment, Antioxidant and Antiproliferative Activity. *Front. Chem.* 2019 7:92. doi: 10.3389/fchem.2019.00092;
10. Alexandra Mioc, Marius Mioc, Roxana Ghiulai*, Mirela Voicu, Roxana Racoviceanu, Cristina Trandafirescu, Cristina Dehelean, Dorina Coricovac, Codruta Soica (*corresponding author). Gold Nanoparticles as Targeted Delivery Systems and Theranostic Agents in Cancer Therapy. *Current Medicinal Chemistry*, 2019, 26, 1-20;
11. Marius Mioc, Sorin Avram, Vasile Bercean, Ludovic Kurunczi, Roxana M. Ghiulai*, Camelia Oprean, Dorina E. Coricovac, Cristina Dehelean, Alexandra Mioc, Mihaela Balan-Porcarasu, Calin Tatu and Codruta Soica (*corresponding author). 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 6:373. doi: 6.3389/fchem.2018.00373;
12. Ioana Macasoi, Marius Mioc, Delia Berceanu Vaduva, Roxana Ghiulai*, Alexandra Mioc, Codruta Soica, Danina Muntean, Victor Dumitrascu (*corresponding author). In silico Evaluation of the Antiproliferative Mitochondrial Targeted Mechanism of Action of Some Pentacyclic Triterpene Derivatives. *REV. CHIM.* 2018 69(12) 3361-3363;
13. Corina Danciu, Cosmin Citu, Istvan Zupko, Roxana Ghiulai*, Petru Matusz, Ioana Zinuca Pavel, Alexandra Popescu, Iulia Pinzaru, Georgeta Simu, Vlad C. Daliborca (*corresponding author). *In vitro* antiproliferative activity of flavonols: fisetin, quercetin and kaempferol and their cyclodextrin complexes. *FARMACIA*, 2015, Vol. 63, 6: 858-864;
14. Ghiulai RM, Sarbu M, Vukelić Ž, Ilie C, Zamfir AD. Early stage fetal neocortex exhibits a complex ganglioside profile as revealed by high resolution tandem mass spectrometry. *Glycoconj. J.* 2014; 31:231-245;
15. Sarbu M*, Ghiulai RM*, Zamfir AD (*equal contribution). Recent developments and applications of electron transfer dissociation mass spectrometry in proteomics. *Amino Acids* 2014; 46:1625-1634;
16. Ghiulai RM, Galusca M, Sisu I, Sisu E, Zamfir AD. High resolution mass spectrometric characterisation of amino linked oligosaccharides – a preliminary study. *Cent. Eur. J. Chem.* 2013; 11(8):1309-1319;
17. Marius Mioc, Alexandra Mioc, Roxana Racoviceanu, Roxana Ghiulai, Alexandra Prodea, Andreea Milan, Lucian Barbu Tudoran, Camelia Oprean, Viviana Ivan, Codruta Soica. The Antimelanoma Biological Assessment of Triterpenic Acid Functionalized Gold Nanoparticles. *Molecules* 2023, 28, 421. <https://doi.org/10.3390/molecules28010421>.
18. Nistor, G.; Mioc, A.; Mioc, M.; Balan-Porcarasu, M.; Ghiulai, R.; Racoviceanu, R.; Avram, S.; Prodea, A.; Semenescu, A.; Milan, A.; et al. Novel Semisynthetic Betulinic Acid-Triazole Hybrids with In Vitro Antiproliferative Potential. *Proceedings* 2023, 11, 101. <https://doi.org/10.3390/pr11010101>
19. 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. <https://doi.org/10.3390/molecules27227807>
20. Gabriela Nistor, Cristina Trandafirescu, Alexandra Prodea, Andreea Milan, Andreea Cristea, Roxana Ghiulai, Roxana Racoviceanu, Alexandra Mioc, Marius Mioc, Viviana Ivan, Codruta Soica. Semisynthetic Derivatives of Pentacyclic Triterpenes Bearing Heterocyclic Moieties with Therapeutic Potential. *Molecules* 2022, 27, 6552. <https://doi.org/10.3390/molecules27196552>
21. Marius Mioc, Alexandra Mioc, Alexandra Prodea, Andreea Milan, Mihaela Balan-Porcarasu, Roxana Racoviceanu, Roxana Ghiulai, Gheorghe Iovanescu, Ioana Macasoi, George Draghici, Cristina Dehelean, Codruta Soica. Novel Triterpenic Acid—Benzotriazole

Esters Act as Pro-Apoptotic Antimelanoma Agents. *Int. J. Mol. Sci.* 2022, 23, 9992. <https://doi.org/10.3390/ijms23179992>

22. Marius Mioc, Alexandra Prodea, Roxana Racoviceanu, Alexandra Mioc, Roxana Ghiulai, Andreea Milan, Mirela Voicu, Gabriel Mardale, Codruta Soica. 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>
23. Marius Mioc, Andreea Milan, Daniel Malita, Alexandra Mioc, Alexandra Prodea, Roxana Racoviceanu, Roxana Ghiulai, Andreea Cristea, Florina Căruntu, Codruta Soica. 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>
24. Prodea, A.; Mioc, A.; Banciu, C.; Trandafirescu, C.; Milan, A.; Racoviceanu, R.; Ghiulai, .; 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>
25. Milan, A.; Mioc, A.; Prodea, A.; Mioc, M.; Buzatu, R.; Ghiulai, R.; Racoviceanu, R.; Caruntu, F.; Soica, 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>
26. Simona Sipos, Elena-Alina Moaca, Ioana Zinuca Pavel, Stefana Avram, Octavian Marius Cretu, Dorina Coricovac, Roxana-Marcela Racoviceanu, Roxana Ghiulai, Ramona Daniela Pana, Codruta Marinela Soica, Florin Borcan, Cristina Adriana Dehelean, Zorin Crainiceanu. *Melissa officinalis* L. Aqueous Extract Exerts Antioxidant and Antiangiogenic Effects and Improves Physiological Skin Parameters. *Molecules* 2021, 26, 2369. <https://doi.org/10.3390/molecules26082369>
27. Delia Dumbrava, Liviana Alexandra Popescu, Codruta Marinela Soica, Alma Nicolin, Ileana Cocan, Monica Negrea, Ersilia Alexa, Diana Obistoiu, Isidora Radulov, Sofia Popescu, Claudia Watz, Roxana Ghiulai, Alexandra Mioc, Camelia Szuhaneck, 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
28. Claudia Geanina Farcas, Cristina Dehelean., Iulia Andreea Pinzaru, Marius Mioc, Vlad Socoliuc, Elena-Alina Moaca, Stefana Avram, Roxana Ghiulai, Dorina Coricovac, Ioana Pavel, Praveen Kumar Alla, Octavian Marius Cretu, Codruta Soica, Felicia Loghin. Thermosensitive Betulinic Acid-Loaded Magnetoliposomes: A Promising Antitumor Potential for Highly Aggressive Human Breast Adenocarcinoma Cells Under Hyperthermic Conditions. *International Journal of Nanomedicine* 2020;15 8175–8200
29. Elena-Alina Moaca, Ioana Zinuca Pavel, Corina Danciu, Zorin Crainiceanu, Daliana Minda, Florina Ardelean, Diana Simona Antal, Roxana Ghiulai, Andreea Cioca, Mihnea Derban, Sebastian Simu, Raul Chioibas, Camelia Szuhaneck, Cristina-Adriana Dehelean. Romanian Wormwood (*Artemisia absinthium* L.): Physicochemical and Nutraceutical Screening. *Molecules* 2019, 24, 3087; doi:10.3390/molecules24173087
30. Delia Muntean, Monica Licker, Ersilia Alexa, Iuliana Popescu, Calin Jianu, Valentina Buda, Cristina Adriana Dehelean, Roxana Ghiulai, Florin Horhat, Delia Horhat, Corina Danciu. Evaluation of essential oil obtained from *Mentha x piperita* L. against multidrug-resistant strains. *Infection and Drug Resistance* 2019, 12, 2905–2914, Dovepress
31. Corina Danciu, Codruța Șoica, Diana Antal, Ersilia Alexa, Ioana Z. Pavel, Roxana Ghiulai, Florina Ardelean, Roxana M. Băbuță, Alexandra Popescu and Cristina A. Dehelean. Natural Compounds in the Chemoprevention of Malignant Melanoma. *Anti-Cancer Agents in Medicinal Chemistry*, 2018, 18, 1-14
32. Corina Danciu, Ștefana Avram, Ioana Zinuca Pavel, Roxana Ghiulai, Cristina Adriana Dehelean, Ersilia Alexa, Daliana Minda, Cristina Petrescu, Elena-Alina Moacă and Codruța Șoica. Main Isoflavones Found in Dietary Sources as Natural Anti-inflammatory Agents. *Current Drug Targets*, 2018, 19, 841-853
33. Corina Danciu, Iulia Andreea Pinzaru, Cristina Adriana Dehelean, Monica Hancianu, Istvan Zupko, Dan Navolan, Monica Licker, Roxana Maria Ghiulai, Codruța Marinela Șoica. Antiproliferative and antimicrobial properties of pure and encapsulated rutin. *Pharmacy*, 2018, Vol. 66, 2
34. Marius Mioc, Ioana Zinuca Pavel, Roxana Ghiulai, Dorina E. Coricovac, Claudia Farcas, Ciprian-Valentin Mihali, Camelia Oprean, Vlad Serafim, Ramona A. Popovici, Cristina A. Dehelean, Michael I. Shtilman, Aristidis M. Tsatsakis and Codruta Soica. The Cytotoxic Effects of Betulin-Conjugated Gold Nanoparticles as Stable Formulations in Normal and Melanoma Cells. *Front. Pharmacol.* 2018, 9:429
35. Marius Mioc, Codruta Soica, Vasile Bercean, Sorin Avram, Mihaela Balan-Porcarasu, Dorina Coricovac, Roxana Ghiulai, Delia Muntean, Florina Andrica, Cristina Dehelean, Demetrios A. Spandidos, Aristides M. Tsatsakis and Ludovic Kurunczi. Design, synthesis

and pharmaco-toxicological assessment of 5-mercapto-1,2,4-triazole derivatives with antibacterial and antiproliferative activity. *International Journal of Oncology* 2017 50: 1175-1183,

36. Stefana Avram, Dorina Elena Coricovac, Ioana Zinuca Pavel, Iulia Pinzaru, Roxana Ghiulai, Flavia Baderca, Codruta Soica, Danina Munteanu, Daciana E. Branisteanu, Demetrios A. Spandidos, Aristides M. Tsatsakis And Cristina Adriana Dehelean. Standardization of A375 human melanoma models on chicken embryo chorioallantoic membrane and Balb/c nude mice. *Oncology Reports* 2017 38:89-99
37. Sarbu M, Robu A, Ghiulai RM., Vukelić Ž, Clemmer DE, Zamfir AD. Electrospray ionization ion mobility mass spectrometry of human brain gangliosides. *Analytical Chemistry* 2016 88 (10), 5166-5178. doi:10.1021/acs.analchem.6b00155
38. Cosmin Citu, Corina Danciu, Iulia Pinzaru, Roxana Ghiulai, Lavinia Vlaia, Vicentiu Vlaia, Florin Borcan, Catalin Dumitru, Ioana Zinuca Pavel, Ioan Sas, Elena Bernad. Genistein and its Fatty Acid Esters as New In vitro Antitumor Compounds. *REV. CHIM. (Bucharest)* 2015; 66 (8):1100-1104;
39. Iulia Pinzaru, Cristina Trandafirescu, Zoltan Szabadai, Marius Mioc, Ionut Ledeti, Dorina Coricovac, Sorina Ciurlea, Roxana Maria Ghiulai, Zorin Crainiceanu, Georgeta Simu. Synthesis and biological evaluation of some pentacyclic lupane triterpenoid esters. *REV. CHIM. BUCHAREST* 2014; 65 (7):848-851
40. Prodea, A.; Milan, A.; Mioc, M.; Mioc, A.; Oprean, C.; Racoviceanu, R.; Negrea-Ghiulai, R.; Mardale, G.; Avram, Ș.; Balan-Porcărașu, M.; et al. Novel Betulin-1,2,4-Triazole Derivatives Promote In Vitro Dose-Dependent Anticancer Cytotoxicity. *Proceedings* **2024**, 12, 24. <https://doi.org/10.3390/pr12010024>
41. Rotunjanu, S.; Racoviceanu, R.; Mioc, A.; Milan, A.; Negrea-Ghiulai, R.; Mioc, M.; Marangoci, N.L.; Șoica, 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>
42. Roșca, O.-J.; Coneac, G.-H.; Racoviceanu, R.; Nistor, A.; Olariu, I.-V.; Cotan, A.-M.; **Negrea-Ghiulai, R.**; Dehelean, C.A.; Vlaia, L.L.; Șoica, C.M. Optimizing Burn Wound Healing: The Critical Role of pH and Rheological Behavior in Plant-Derived Topical Formulations. *Pharmaceutics* 2025, 17, 853. <https://doi.org/10.3390/pharmaceutics17070853>
43. Rotunjanu, S.; Racoviceanu, R.; Gogulescu, A.; Mioc, A.; Milan, A.; Marangoci, N.L.; Dascălu, A.-I.; Mioc, M.; **Negrea-Ghiulai, R.**; Trandafirescu, C.; et al. Newly Synthesized CoFe₂-yPryO₄ (y = 0; 0.01; 0.03; 0.05; 0.1; 0.15; 0.2) Nanoparticles Reveal Promising Selective Anticancer Activity Against Melanoma (A375), Breast Cancer (MCF-7), and Colon Cancer (HT-29) Cells. *Nanomaterials* 2025, 15, 829. <https://doi.org/10.3390/nano15110829>

**Publications in extenso
in ISI indexed journals without
impact factor/ BDI**

1. Florin Borcan, Marius Mioc, Roxana Ghiulai*, Iulia Pinzaru, Cristina Adriana Dehelean, Codruta Marinela Soica (*corresponding author). A Study on the Behavior of a Polyurethane Drug Carrier in Various pH Media. *Journal of Medicine and Life* Vol. 13, Issue 2, April–June 2020, pp. 195–199. DOI: 10.25122/jml-2020-0010
2. Roxana Racoviceanu, Claudia Farcaș, Roxana Ghiulai*, Sima Laurentiu Vasile, Cristina Trandafirescu, Diana Antal, Marius Mioc, Cristina Dehelean, Codruta Soica (*corresponding author). Hydro-alcoholic extracts of roots and sprouts of *Armoracia rusticana*: assessment of antioxidant and cytotoxic activity. *Rev. Chim.*, 71 (5), 2020, 201-210 doi.org/10.37358/Rev. Chem.1949
3. Alexandra Ulici, Andreea Milan, Marius Mioc, Roxana Ghiulai, Roxana Racoviceanu Codruța Șoica. Ring-Modified Triterpene Derivatives as Potential Pharmacological Active Compounds. *Timisoara Med.* 2020, 2020(2), 7; doi:10.35995/tmj20200207 <http://www>
4. Ghiulai RM, Sarbu M, Ilie C, Zamfir AD. A straightforward electrospray ionization high resolution mass spectrometry method for underivatized long chain polysaccharides. *Open Chem.*, 2015; 13: 32–41;

**Abstract scientific papers
published and presented at
national and international
conferences**

1. **Roxana Negrea-Ghiulai**, Marius Mioc, Alexandra Mioc, Ștefana Avram, Andreea-Maria Munteanu, Bogdan-Ionuț Mara, Gabriel-Ionel Mardale, Codruța Șoica. **Anti-melanoma activity of betulinic acid gold nanoparticles on RPMI-7951 cell lines.** National Congress of Pharmacy XX-th Edition, PHARMACY IN THE CONTEXT OF GLOBAL CHANGES: CHALLENGES AND OPPORTUNITIES, Târgu Mureș 24-26 September 2025, ISBN 978-973-169-929-5

2. Marius Mioc, Alexandra Mioc, **Roxana Negrea-Ghiulai**, Roxana Racoviceanu, Andreea Milan, Alexandra Prodea, Codruta Şoica. **Five years of triterpene scaffold derivatization: lessons learned and future directions**. National Congress of Pharmacy XX-th Edition, PHARMACY IN THE CONTEXT OF GLOBAL CHANGES: CHALLENGES AND OPPORTUNITIES, Târgu Mureş 24-26 September 2025, ISBN 978-973-169-929-5
3. Roxana Negrea-Ghiulai, Marius Mioc, Stefana Avram, Alexandra Prodea, Andreea Milan, Roxana Racoviceanu, Dorina Coricovac, Alexandra Mioc, Codruta Soica. Phase II *in vivo* metabolites of betulinic acid. National Congress of Pharmacy XIXth Edition, PHARMACY TODAY: FROM TRADITION TO INTERDISCIPLINARITY AND ARTIFICIAL INTELLIGENCE , 27-29 September 2023, ISBN 978-606-075-203-5
4. Marius Mioc, Gabriela Nistor. Roxana Negrea-Ghiulai, Roxana Racoviceanu, Alexandra Prodea, Andreea Milan, Alexandra Mioc, Cristina Trandafirescu, Mihaela Balan-Porcarasu, Codruta Şoica. The antimelanoma cytotoxic potential of triazole bearing triterpenic acid derivatives. National Congress of Pharmacy XIXth Edition, PHARMACY TODAY: FROM TRADITION TO INTERDISCIPLINARITY AND ARTIFICIAL INTELLIGENCE , 27-29 September 2023, ISBN 978-606-075-203-5
5. Roxana Racoviceanu, Roxana Negrea-Ghiulai, Alexandra Mioc, Marius Mioc, Slavita Rotunjanu, Alexandra Prodea, Andreea Milan, Cristina Trandafirescu, Codruta Şoica. Synthesis, characterisation and cytotoxic evaluation of CoFe₂-xDyxO₄ complexes with γ -cyclodextrin. National Congress of Pharmacy XIXth Edition, PHARMACY TODAY: FROM TRADITION TO INTERDISCIPLINARITY AND ARTIFICIAL INTELLIGENCE, 27-29 September 2023, ISBN 978-606-075-203-5
6. Ştefana Avram, Corina Danciu, Daliana Minda, Ioana Zinuca Magyari-Pavel, Larisa Bora, Roxana Negrea-Ghiulai, Cristina Dehelean, Codruţa Şoica. Angiogenesis and biocompatibility assessment of medicinal plants and natural compounds: an *in ovo* approach. National Congress of Pharmacy XIXth Edition, PHARMACY TODAY: FROM TRADITION TO INTERDISCIPLINARITY AND ARTIFICIAL INTELLIGENCE , 27-29 September 2023, ISBN 978-606-075-203-5
7. Ghiulai R., Avram Ş.; Mioc M., Racoviceanu R., Şoica C., Melissa officinalis L herba-phytochemical profile, National Congress of Pharmacy XVIII Edition, PHARMACY: FROM INNOVATION TO GOOD PHARMACEUTICAL PRACTICE, 15-17 September 2021, I-SBN 978-606-10-2144-4
8. Racoviceanu R., Mioc M., Ghiulai R., Ulici A., Milan A., Şoica C., Synthesis and characterization of cobalt-doped magnetite nanoparticles for use in hyperthermia, National Congress of Pharmacy XVIIIth Edition, PHARMACY: FROM INNOVATION TO GOOD PHARMACEUTICAL PRACTICE, 15-17 September 2021, I-SBN 978-606-10-2144-4
9. Mioc M., Ghiulai R., Racoviceanu R., Prodea A., Milan A., Şoica C., Synthesis and characterization of a new amide derivative of betulinic acid with amino-triazole, with potential antiproliferative effect, National Congress of Pharmacy XVIIIth Edition, PHARMACY: FROM INNOVATION TO GOOD PHARMACEUTICAL PRACTICE, 15-17 September 2021, I-SBN 978-606-10-2144-4
10. Stefana Avram, Ioana Zinuca Pavel, Daliana Minda, Zorîţa Diaconeasa, Brigitta Kis, Roxana Ghiulai, Dorina Coricovac, Iulia Pinzaru, Cristina Dehelean, Corina Danciu. Dietary by-product grape seeds extract: high content in catechins and proanthocyanidins with angiogenic modulator effects. Medicinal plants between nature and health. Abstracts of events within the project CNFIS-FDI-2021-0498 "Development of the practice base in the field of medicinal plants of the University of Medicine and Pharmacy "Victor Babeş" Timişoara, Victor Babes Publishing House, 2021, ISBN 978-606-786-253-9, CNCSIS: 324; pages 14-15
11. Stefana Avram, Ioana Zinuca Pavel, Daliana Minda, Adelina Lombrea, Roxana Ghiulai, Roxana Racoviceanu, Dorina Coricovac, Iulia Pinzaru, Cristina Dehelean, Codruta Soica, Corina Danciu. Effects of *Rosmarinus officinalis* ethanolic extract in HET-CAM and tumor CAM assay. Medicinal plants between nature and health. Abstracts of events within the project CNFIS-FDI-2021-0498 "Development of the practice base in the field of medicinal plants of the University of Medicine and Pharmacy "Victor Babeş" Timişoara, Victor Babes Publishing House, 2021, ISBN 978-606-786-253-9, CNCSIS: 324; Page 21
12. Daliana Minda, Ioana Zinuca Pavel, Corina Danciu, Roxana Ghiulai, Ioana Macasoi, Dorina Coricovac, Iulia Pinzaru, Alina-Elena Moaca, Codruta Soica, Cristina Dehelean, Stefana Avram. Sweet wormwood phytochemical analysis and bioactive effects on CAM assay. Medicinal plants between nature and health. Abstracts of events within the project CNFIS-FDI-2021-0498 "Development of the practice base in the field of medicinal plants of the University of Medicine and Pharmacy "Victor Babeş" Timişoara, Victor Babes Publishing House, 2021, ISBN 978-606-786-253-9, CNCSIS: 324; pages 27-28

13. Andreea Milan, Alexandra Ulici, Marius Mioc, Roxana Racoviceanu, Roxana Ghiulai, Șoica Codruța. The determination of anti-cancer and antioxidant activity of *Melissa officinalis* L. Medicinal plants between nature and health. Abstracts of events within the project CNFIS-FDI-2021-0498 "Development of the practice base in the field of medicinal plants of the University of Medicine and Pharmacy "Victor Babeș" Timișoara, Victor Babes Publishing House, 2021, ISBN 978-606-786-253-9, CNCSIS: 324; Page 39
14. Alexandra Prodea, Andreea Milan, Roxana Racoviceanu, Roxana Ghiulai, Marius Mioc, Codruța Șoica. Potential cytotoxic activity of an ethanolic extract of *Salvia officinalis*. Medicinal plants between nature and health. Abstracts of events within the project CNFIS-FDI-2021-0498 "Development of the practice base in the field of medicinal plants of the University of Medicine and Pharmacy "Victor Babeș" Timișoara, Victor Babes Publishing House, 2021, ISBN 978-606-786-253-9, CNCSIS: 324; Page 40
15. Roxana Racoviceanu, Roxana Ghiulai, Alexandra Prodea, Andreea Milan, Marius Mioc, Codruța Șoica. Evaluation of *Boswellia Serrata* hydro-alcoholic extracts. Medicinal plants between nature and health. Abstracts of events within the project CNFIS-FDI-2021-0498 "Development of the practice base in the field of medicinal plants of the University of Medicine and Pharmacy "Victor Babeș" Timișoara, Victor Babes Publishing House, 2021, ISBN 978-606-786-253-9, CNCSIS: 324; Page 41
16. Roxana Ghiulai, Marius Mioc, Roxana Racoviceanu, Cristina Trandafirescu, Alexandra Ulici, Andreea Milan, Codruta Soica. Screening of pentacyclic triterpenes from Birch sap. Applications of experimental methods in the analysis of cosmetic products with active ingredients: volume of abstracts edited within the scientific events carried out on the basis of the project CNFIS-FDI-2019-0393 "Center for professional development in the field of dermato-cosmetic products based on medicinal plants", Victor Babes Publishing House, 2020, ISBN 978-606-786-156-3, CNCSIS: 324; page 28-29
17. Elena-Alina Moacă, Ioana Zinuca Pavel, Ștefana Avram, Dorina Coricovac, Roxana-Marcela Racoviceanu, Roxana Ghiulai, Ramona Daniela Pană, Codruta Marinela Șoica, Florin Borcan, Octavian Marius Cretu, Cristina Adriana Dehelean. Assessment of lemon balm leaf aqueous extract. Physicochemical screening, biological effects and bioactivity on mice skin. Applications of experimental methods in the analysis of cosmetic products with active ingredients: volume of abstracts edited within the scientific events carried out on the basis of the project CNFIS-FDI-2019-0393 "Center for professional development in the field of dermato-cosmetic products based on medicinal plants", Victor Babes Publishing House, 2020, ISBN 978-606-786-156-3, CNCSIS: 324; pages 32-33
18. Andreea Silvia Paducel, Ioana Zinuca Pavel, Daliana Minda, Ioana Macasoai, Iulia Pinzaru, Alina Moaca, Roxana Ghiulai, Codruta Soica, Cristina Dehelean, Corina Danciu, Ștefana Avram. Sweet basil extracts with antioxidant potential show *in vivo* anti-irritative and wound healing effects. Applications of experimental methods in the analysis of cosmetic products with active ingredients: volume of abstracts edited within the scientific events carried out on the basis of the project CNFIS-FDI-2019-0393 "Center for professional development in the field of dermato-cosmetic products based on medicinal plants", Victor Babes Publishing House, 2020, ISBN 978-606-786-156-3, CNCSIS: 324; page 42-43
19. Alexandra Ulici, Andreea Milan, Roxana Raicoviceanu, Roxana Ghiulai, Marius Mioc, Codruta Șoica. A-ring modified triterpene inclusion complex with hydroxypropyl gamma-cyclodextrin. Applications of experimental methods in the analysis of cosmetic products with active ingredients: volume of abstracts edited within the scientific events carried out on the basis of the project CNFIS-FDI-2019-0393 "Center for professional development in the field of dermato-cosmetic products based on medicinal plants", Victor Babes Publishing House, 2020, ISBN 978-606-786-156-3, CNCSIS: 324; page 44
20. Marius Mioc, Alexandra Ulici, Andreea Milan, Roxana Racoviceanu, Roxana Ghiulai, Codruța Șoica. Synthesis and preliminary characterization of betulinic acid-1,2,4-triazol amide derivative. Applications of experimental methods in the analysis of cosmetic products with active ingredients: volume of abstracts edited within the scientific events carried out on the basis of the project CNFIS-FDI-2019-0393 "Center for professional development in the field of dermato-cosmetic products based on medicinal plants", Victor Babes Publishing House, 2020, ISBN 978-606-786-156-3, CNCSIS: 324; page 45-46
21. Andreea Milan, Alexandra Ulici, Marius Mioc, Roxana Ghiulai, Roxana Racoviceanu, Codruta Șoica. Pentacyclic triterpene derivatives synthesis, suitable for cyclodextrin inclusion complex formulation. Applications of experimental methods in the analysis of cosmetic products with active ingredients: volume of abstracts edited within the scientific events carried out on the basis of the project CNFIS-FDI-2019-0393 "Center for professional development in the field of dermato-cosmetic products based on medicinal plants", Victor Babes Publishing House, 2020, ISBN 978-606-786-156-3, CNCSIS: 324; page 47-48

22. Roxana Ghiulai, Stefana Avram, Laurian Vlase, Marius Mioc, Dorina Coricovac, Cristina Dehelean, Codruta Soica. Identification and quantification of betulinic acid from cosmetic formulations. Volume of abstracts edited within the scientific events carried out based on the CNFIS-FDI-2019-0393 project, Dermo-cosmetic products as formulations. Testing the Safety of Cosmetic Products, Victor Babes Publishing House, 2020, ISBN 978-606-786-155-6, CNCSIS: 324; pages 11-12
23. Stefana Avram, Corina Danciu, Ioana Zinuca Pavel, Daliana Minda, Roxana Ghiulai, Ioana Macasoi, Dorina Coricovac, Iulia Pinzaru, Codruta Soica, Cristina Dehelean. Traditional antiallergic remedies targeting angiogenesis in atopic dermatitis. Volume of abstracts edited within the scientific events carried out based on the CNFIS-FDI-2019-0393 project, Dermo-cosmetic products as formulations. Testing the safety of cosmetic products, Victor Babes Publishing House, 2020, ISBN 978-606-786-155-6, CNCSIS: 324; pages 13-14
24. Roxana Ghiulai, Stefana Avram, Laurian Vlase, Marius Mioc, Dorina Coricovac, Iulia Pinzaru, Cristina Dehelean, Codruta Soica. Screening of pentadic triterpenoids from cosmetic products containing Lemon Balm extracts by LC-MS method. Volume of abstracts edited within the scientific events carried out based on the CNFIS-FDI-2019-0393 project, Dermo-cosmetic products as formulations. Testing the Safety of Cosmetic Products, Victor Babes Publishing House, 2020, ISBN 978-606-786-155-6, CNCSIS: 324; pages 19-20
25. Gabriela Nistor, Marius Mioc, Roxana Ghiulai, Roxana Racoviceanu, Codruta Soica. Synthesis and cytotoxic evaluation of a betulinic acid (bis)-amino-polyethyleneglycole derivative, on HaCaT cells. Volume of abstracts edited within the scientific events carried out based on the CNFIS-FDI-2019-0393 project, Dermo-cosmetic products as formulations. Testing the Safety of Cosmetic Products, Victor Babes Publishing House, 2020, ISBN 978-606-786-155-6, CNCSIS: 324; page 29
26. Marius Mioc, Roxana Ghiulai, Roxana Racoviceanu, Gabriela Nistor, Codruta Soica. Synthesis and cytotoxic evaluation of a novel betulin-1,2,4-triazole derivative, on HaCaT cells. Volume of abstracts edited within the scientific events carried out based on the CNFIS-FDI-2019-0393 project, Dermo-cosmetic products as formulations. Testing the safety of cosmetic products, Victor Babes Publishing House, 2020, ISBN 978-606-786-155-6, CNCSIS: 324; pp 30-31
27. Gabriela Nistor, Marius Mioc, Roxana Ghiulai, Roxana Racoviceanu, Codruta Soica. Synthesis and cytotoxic evaluation of a ursolic acid (bis)-amino-polyethyleneglycole derivative, on HaCaT cells. Volume of abstracts edited within the scientific events carried out based on the CNFIS-FDI-2019-0393 project, Dermo-cosmetic products as formulations. Testing the Safety of Cosmetic Products, Victor Babes Publishing House, 2020, ISBN 978-606-786-155-6, CNCSIS: 324; pages 34-35
28. Marius Mioc, Roxana Ghiulai, Roxana Racoviceanu, Gabriela Nistor, Codruta Soica. Biological cytotoxic evaluation of a novel betulin-5-R-3-mercapto-1,2,4-triazole bioconjugate. Volume of abstracts edited within the scientific events carried out based on the CNFIS-FDI-2019-0393 project, Dermo-cosmetic products as formulations. Testing the safety of cosmetic products, Victor Babes Publishing House, 2020, ISBN 978-606-786-155-6, CNCSIS: 324; pp 36-37
29. Danciu Corina, Ersila Alexa, Avram Stefana, Pavel Ioana Zinuca, Minda Daliana, Soica Codruta, Trandafirescu Cristina, Ghiulai Roxana, Buda Valentina, Dehelean Cristina. Evaluation of phenolic profile, antioxidant capacity and anticancer effect against A375 human melanoma cell line of ethanolic extract obtained from aerial part of evening-primrose. Abstracts of events within the project CNFIS-FDI-2018-0159, Safety of medicinal plants products, Victor Babes Publishing House, 2018, ISBN 978-606-786-104-4; pages 23-24
30. Kis Brighitta, Stefana Avram, Ioana Zinuca Pavel, Daliana Minda, Oana Cionca, Monica Hancianu, Codruta Soica, Roxana Ghiulai, Corina Danciu. Advances in research of *Apium graveolens* L. extract: phytochemical evaluation, antiproliferative and pro-apoptotic activity against A375 human melanoma cells. Abstracts of events within the project CNFIS-FDI-2018-0159, Safety of medicinal plants products, Victor Babes Publishing House, 2018, ISBN 978-606-786-104-4; pp 32-33
31. Stefana Avram, Corina Danciu, Ioana Zinuca Pavel, Daliana Minda, Roxana Ghiulai, Ioana Macasoi, Dorina Coricovac, Iulia Pinzaru, Alina Elena Moaca, Denisa Carcioban, Codruta Soica, Cristina Dehelean. Safety and wound healing effects of three *Artemisia* species. Abstracts of events within the project CNFIS-FDI-2018-0159, Safety of medicinal plants products, Victor Babes Publishing House, 2018, ISBN 978-606-786-104-4; pp. 47-48
32. Stefana Avram, Corina Danciu, Ioana Zinuca Pavel, Daliana Minda, Roxana Ghiulai, Iulia Pinzaru, Ioana Macasoi, Dorina Coricovac, Alina Elena Moaca, Marius Mioc, Codruta

- Soica, Cristina Dehelean, The effect of lemon balm extracts on MCF-7 and MDA-MB-231 breast cancer cells. Abstracts of events within the project CNFIS-FDI-2018-0159, Safety of medicinal plants products, Victor Babes Publishing House, 2018, ISBN 978-606-786-104-4; pp. 49-50
33. Roxana Ghiulai, Stefana Avram, Laurian Vlas, Marius Mioc, Dorina Coricovac, Iulia Pinzaru, Florina Ardelean, Cristina Dehelean, Codruta Soica. Artemisin screening in commercial herba from *Artemisia* species by LC-MS analytical method. Abstracts of events within the project CNFIS-FDI-2018-0159, Safety of medicinal plants products, Victor Babes Publishing House, 2018, ISBN 978-606-786-104-4; pp 30-31
 34. Roxana Racoviceanu, Marius Mioc, Roxana Ghiulai, Cristina Trandafirescu, Codruta Soica. Antioxidant activity of *Armoracia rusticana* hydroalcoholic extract. Abstracts of events within the project CNFIS-FDI-2018-0159, Safety of medicinal plants products, Victor Babes Publishing House, 2018, ISBN 978-606-786-104-4; pages 40-41
 35. Marius Mioc, Roxana Ghiulai, Roxana Racoviceanu, Cristina Trandafirescu, Codruta Soica. Anticancer activity evaluation of a polyphenol fraction obtained from Fennel (*Foeniculum vulgare*) seeds extracts. Abstracts of events within the project CNFIS-FDI-2018-0159, Safety of medicinal plants products, Victor Babes Publishing House, 2018, ISBN 978-606-786-104-4; Page 56
 36. Marius Mioc, Roxana Ghiulai, Roxana Racoviceanu, Cristina Trandafirescu, Codruta Soica. Green synthesis of silver nanoparticles using a *Foeniculum vulgare* seed extract and antiproliferative/cytotoxicity evaluation. Abstracts of events within the project CNFIS-FDI-2018-0159, Safety of medicinal plants products, Victor Babes Publishing House, 2018, ISBN 978-606-786-104-4; page 57
 37. Mirela Voicu, Marius Mioc, Roxana Ghiulai, Adrian Voicu, Valentina Buda, Codruta Soica. Antibacterial activities of Chamomile flower. Abstracts of events within the project CNFIS-FDI-2018-0159, Safety of medicinal plants products, Victor Babes Publishing House, 2018, ISBN 978-606-786-104-4; pp 69-70
 38. Daliana I Minda, Roxana Ghiulai, Camelia Oprean, Laurian Vlas, Ioana Zinuca Pavel, Iulia Pinzaru, Roxana Babuta, Marius Mioc, Corina Danciu, Dorina Coricovac, Codruta Soica, Cristina Dehelean, Stefana Avram. LC-MS Analysis Of Phytocompounds From *Melissa Officinalis* L., Book of Abstracts, PP 149, p 256, ISBN: 978-619-7240-48-1, 3rd International Conference on Natural Products Utilization From Plants to Pharmacy Shelf, 18-21 October 2017, Bansko, Bulgaria
 39. Ioana Zinuca Pavel, Roxana Ghiulai, Iulia Pinzaru, Roxana Babuta, Marius Mioc, Corina Danciu, Daliana Minda, Camelia Oprean, Dorina Coricovac, Codruta Soica, Cristina Dehelean, Stefana Avram. Evaluation Of The Antioxidant And Cytotoxic Effects Of *Melissa Officinalis* L. Extracts In Breast Cancer Cell Lines, Book Of Abstracts, PP 149, p 256, ISBN: 978-619-7240-48-1, 3rd International Conference on Natural Products Utilization From Plants To Pharmacy Shelf, 18-21 October 2017, Bansko, Bulgaria
 40. Daliana Minda, Ioana Zinuca Pavel, Roxana Ghiulai, Iulia Pinzaru, Roxana Babuta, Marius Mioc, Corina Danciu, Camelia Oprean, Dorina Coricovac, Codruta Soica, Cristina Dehelean, Stefana Avram. Chemopreventive potential of red and white grapes from Banat region, Book of Abstracts, PP 148, p 255, ISBN: 978-619-7240-48-1, 3rd International Conference on Natural Products Utilization From Plants to Pharmacy Shelf, 18-21 October 2017, Bansko, Bulgaria
 41. Danciu C, Avram S, Bojin F, Muntean D, Minda D, Pavel I, Soica C, Ghiulai R, Dehelean C, Antimicrobial and in vitro antiproliferative and pro apoptotic potential against B164A5 murine melanoma cell line of flavonol quercetin, Acta Pharmaceutica Hungarica, P2F1, pag 217, 7th BBBB International Conference on Pharmaceutical Sciences, New trends and achievements in pharmaceutical sciences and pharmacy practice, 5-7 Oct, 2017, Balatonfured, Hungary, ISBN 0001-6659
 42. Danciu C, Avram S, Bojin F, Muntean D, Minda D, Pavel I, Soica C, Ghiulai R, Dehelean C, Antimicrobial and in vitro antiproliferative and pro apoptotic potential against B164A5 murine melanoma cell line of flavonol fisetin, Acta Pharmaceutica Hungarica, P2F1, pag 216, 7th BBBB International Conference on Pharmaceutical Sciences, New trends and achievements in pharmaceutical sciences and pharmacy practice, 5-7 Oct, 2017, Balatonfured, Hungary, ISBN 0001-6659
 43. Soica C, Mioc M, Coricovac D, Trandafirescu C, Ghiulai R, Pavel I, Danciu C, Pinzaru I, Moaca A, Dragomirescu A, Popovici RA, Dehelean C. Betulin –conjugated gold nanoparticles with antitumor activity. Acta Pharmaceutica Hungarica, P2F1, pg 208, 7th BBBB International Conference on Pharmaceutical Sciences, New trends and achievements in pharmaceutical sciences and pharmacy practice, 5-7 Oct, 2017, Balatonfured, Hungary. ISBN 0001-6659

44. Soica C, Mioc M, Coricovac D, Trandafirescu C, Ghiulai R, Pavel I, Danciu C, Pinzaru I, Moaca A, Dragomirescu A, Popovici RA, Dehelean C. Hollow gold nanoparticles loaded with betulin as anticancer agents. *Acta Pharmaceutica Hungarica*, P2F1,pg 208, 7th BBBB International Conference on Pharmaceutical Sciences, New trends and achievements in pharmaceutical sciences and pharmacy practice, 5-7 Oct, 2017, Balatonfured, Hungary. ISBN 0001-6659
45. Roxana Ghiulai, Dorina Coricovac, 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. *Phytocompunds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity*. Abstracts of the international workshop of the Romanian-French bilateral project PN II-CT- 789/30.06.2014, 23rd November 2016, Timisoara, Romania, "Victor Babes" Publishing House ISBN 978-606-786-024-5, p 35
46. Florina Andrica, Cristina Dehelean, Cristina Trandafirescu, Roxana Ghiulai, Roxana Babuta, Marius Mioc, Codruta Soica. Protective effects of *Spirulina platensis* against heavy metal toxicity. *Phytocompunds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity*. Abstracts of the international workshop of the Romanian-French bilateral project PN II-CT- 789/30.06.2014, 23rd November 2016, Timisoara, Romania, "Victor Babes" Publishing House ISBN 978-606-786-024-5, p 44
47. Marius Mioc, Cristina Trandafirescu, Roxana 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. *Phytocompunds and extracts from biodiversity: scaffolds for new products with anti-inflammatory and chemopreventive activity*. Abstracts of the international workshop of the Romanian-French bilateral project PN II-CT- 789/30.06.2014, 23rd November 2016, Timisoara, Romania, Editura "Victor Babes" ISBN 978-606-786-024-5, p 47
48. Ioana Zinuca Pavel, Iulia Pinzaru, Roxana Ghiulai, Stefana Avram, Marius Mioc, Codruta Soica, Dorina Coricovac, Cristina Adriana Dehelean. Antiproliferative effects of a betulin nanoformulation on a lung carcinoma cell line – A549. *Macedonian pharmaceutical bulletin*, 62 (suppl) 589–590 (2016). ISSN 1409 – 8695. Sixth Congress of Pharmacy in Macedonia with International participation 2016
49. Dorina Coricovac, Ioana Zinuca Pavel, Roxana Ghiulai, Alina Moaca, Iulia Pinzaru, Marius Mioc, Corina Danciu, Codruta Soica, Cristina Dehelean - Characterization of the in vitro effects induced by betulinic acid on breast cancer cell lines. In vitro characterization of betulinic acid effects on several breast cancer cell lines, ID-371, Abstract Volume, ISSN : 2537-2823; ISSN-L : 2537-2823 National Congress of Pharmacy, XVIth Edition, Pharmacy-Center for the Interdisciplinarity of Life Sciences, Bucharest, 28 Sep-01 Oct 2016
50. Coricovac Dorina, Ciurlea Sorina, Danciu Corina, Ghiulai Roxana, Antal Diana, Pinzaru Iulia, Dehelean Cristina. Development of in vivo melanoma models, The 17th DKMT Euroregional Conference on Environment and Health, June 5-6, 2015, Szeged, Hungary, Szeged, Hungary, Abstract book ISBN 978-963-306-374-3 p 45
51. Andrica, F, Dehelean, C, Coricovac, D, Pânzaru, I, Ghiulai, R, Drăgan, S. In vivo evaluation of antiinflammatory effects of spirulina platensis. The 17th DKMT Euroregional Conference on Environment and Health, June 5-6, 2015, Szeged, Hungary, ISBN 978-963-306-374-3 Abstract book ISBN 978-963-306-374-3 p 36
52. Sarbu M, Ghiulai RM, Zamfir AD. A nanoESI-QTOF MS approach for screening and sequencing of underivatized dextran chains containing up to 35 glucose repeats. 20th International Mass Spectrometry Conference, 24-29 August 2014, Geneva, Switzerland, Book of abstracts, P S08-08, pg 213-214 ISBN 978-2-8399-1514-4
53. Ghiulai RM, Mosoarca C, Vukelic Z, Sisu E, Zamfir AD. Application of fully automated chip-based nanoelectrospray ion trap mass spectrometry for mapping and sequencing of fetal cerebellum gangliosides. The Polish Society for Mass Spectrometry and The German Society for Mass Spectrometry Conference (DGMS), Poznan, Poland, 4-7 March 2012; Book of abstracts, P 61, p.147, ISBN 978-83-7712-064-4
54. Ghiulai RM, Mosoarca C, Vukelic Z, Zamfir AD. High-throughput mass spectrometric determination of ganglioside expression and structure in human fetal cerebellum. The German Society for Mass Spectrometry Conference (DGMS), Konstanz Germany, 8-11 March 2009; Book of abstracts, PB 07, p.162, ISBN 978-3-89318-995-3
55. Dorina Coricovac, Ioana Zinuca Pavel, George Andrei Draghici, Iulia Pinzaru, Stefana Avram, Marius Mioc, Roxana Ghiulai, Codruta Soica, Cristina Adriana Dehelean. In vitro anti-proliferative and antimetastatic effects of lupan pentacyclic triterpenes. Abstracts of the 53rd Congress of the European Societies of Toxicology (EUROTOX) Bratislava,

- Slovakia, 10th–13th September, 2017. Toxicology Letters Volume 280, Supplement 1, 20 October 2017, P-09-02-58, Page S273. <http://dx.doi.org/10.1016/j.toxlet.2017.07.962>
56. Coricovac D.E., Pavel I.Z., Avram S., Ghiulai R., Pinzaru I., Mioc M., Soica C., Dehelean C.A. Assessment of the in vitro effects of some new betulinic acid nanoformulations. Abstracts of the 52nd Congress of the European Societies of Toxicology (EUROTOX) Fibes Congress Center Seville, Spain, 04th–07th September 2016. Toxicology Letters Volume 258, Supplement, 16 September 2016, p17-047, Pages S276-S277 <http://dx.doi.org/10.1016/j.toxlet.2016.06.1967>
 57. D.E. Coricovac, I. Pinzaru, I.Z. Pavel, R. Ghiulai, A.M. Cîmpean, C. Soica, C.A. Dehelean, S. Avram. Experimental models of human melanoma. Abstracts of the 52nd Congress of the European Societies of Toxicology (EUROTOX) Fibes Congress Center Seville, Spain, 04th-07th September 2016. Toxicology Letters Volume 258, Supplement, 16 September 2016, P03-006, Page S93. <http://dx.doi.org/10.1016/j.toxlet.2016.06.1407>
 58. 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
 59. 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
 60. Roxana Ghiulai, Marius Mioc, Gabriela Nistor, Roxana Racoviceanu, Codruta Soica. Design and synthesis of betulinic acid gold nano-particles with enhanced pharmaceutical properties. Symposium of Young Researchers on Pharmaceutical Technology, Biotechnology and Regulatory Science January 20-22nd 2021 Szeged, Hungary. DOI: 10.14232/syrptbrs.2021.op30
 61. 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. Symposium of Young Researchers on Pharmaceutical Technology, Biotechnology and Regulatory Science January 20-22nd 2021 Szeged, Hungary. DOI: 10.14232/syrptbrs.2021.op50
 62. Nistor G., Mioc M., Ghiulai R., Racoviceanu R., Soica C., Synthesis of betulinic acid 1,2,4-triazole derivatives suitable for cyclodextrin inclusion complex formulation, Symposium of Young Researchers on Pharmaceutical Technology, Biotechnology and Regulatory Science, Szeged 20-22 January 2021, DOI: 10.14232/syrptbrs.2021.op16
 63. Roxana Ghiulai, Camelia Oprean, Laurian Vlase, Ioana Zinuca Pavel, 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. ICMPR-2018, International Conference of Medicinal Plants Research, Warsaw, Poland, March, 26th 2018; Book of abstracts, p.41-4
 64. Stefana Avram, Roxana Ghiulai, Iulia Pinzaru, Ioana Zinuca Pavel, Roxana Babuta, Marius Mioc, Corina Danciu, Daliana Minda, Camelia Oprean, Dorina Coricovac, Codruta Soica, Cristina Dehelean, In Vitro And In Vivo Effects Of Lemon Balm Extracts On Breast Cancer. ICMPR-2018, International Conference of Medicinal Plants Research, Warsaw, Poland, March, 26th 2018; Book of abstracts, p.29-31
 65. 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. ICMPR-2018, International Conference of Medicinal Plants Research, Warsaw, Poland, March, 26th 2018; Book of abstracts, p.15-16
 66. 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. ICMPR-2018, International Conference of Medicinal Plants Research, Warsaw, Poland, March, 26th 2018; Book of abstracts, p.17-18
 67. 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; Proceedings book p. 81
 68. Roxana Ghiulai, Camelia Oprean, Laurian Vlase, Ioana Zinuca Pavel, Iulia Pinzaru, Roxana Babuta, Marius Mioc, Corina Danciu, Dorina Coricovac, Codruta Soica, Cristina Dehelean, Stefana Avram. Phytochemical screening of *Melissa officinalis* L. from

Romanian Banat area. International Conference on Science and Society 2017 : "Phytomedicine and Biopiracy" ICSS-2017, July 24-28/ 2017, Mainz, Germany; Book of abstracts, p.80-81

69. Stefana Avram, Roxana Ghiulai, Iulia Pinzaru, Ioana Zinuca Pavel, Roxana Babuta, Marius Mioc, Corina Danciu, Daliana Minda, Camelia Oprean, Dorina Coricovac, Codruta Soica, Cristina Dehelean, Melissa Officialis L. Extracts: Chemopreventive Potential In Breast Cancer. International Conference on Science and Society 2017: "Phytomedicine and Biopiracy" ICSS-2017, July 24 – 28/ 2017, Mainz, Germany; Book of abstracts, p.66
70. Roxana Ghiulai, Corina Danciu, Diana Antal, Lavinia Vlaia, Cristina Dehelean. Assessment of the effects of a betulinic acid nanoformulation on ear inflammation. 63rd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA2015) Budapest, Hungary, 23 - 27 August 2015; Book of abstracts, PM 83, p.166-167
71. Ghiulai RM, Sarbu M, Vukelic Z, Ilie C, Zamfir AD. High resolution mass spectrometric analysis of complex ganglioside profile typical to early stage fetal neocortex. 26th Mass Spectrometry Forum, 17-18 February 2015, Vienna, Austria; Book of abstracts, P 8, p 52
72. Sarbu M, Robu A, Ghiulai RM, Peter-Katalinic J, Zamfir AD. Applications of chip-based nanoelectrospray MS to lysosomal storage diseases: Schindler disease. 25th Mass Spectrometry Forum, 17-19 February 2014, Vienna, Austria; Book of abstracts, p.12
73. Ghiulai RM, Sarbu M, Ilie C, Zamfir AD. High resolution mass spectrometric method for the structural investigation of native long chain polysaccharides. 25thMassSpec Forum. Vienna, Austria 17-19 February 2014; Book of abstracts, P 11
74. Sarbu M, Ghiulai RM, Zamfir AD. Nanoelectrospray quadrupole time-of-flight tandem mass spectrometric analysis of long chain polysaccharides. 5th International Symposium. Research and Education in Innovation Era, 5-6 November 2014, Arad, Romania

Research internships abroad

University of Vienna, Faculty of Chemistry - coordinator prof. dr.dr.h.c. Andreas Rizzi
May 2012 - July 2012

Research Fellowships

Doctoral scholarship funded by the European Social Fund, through the POSDRU project 107/1.5/S/78702 February 2011 - November 2013

Member/responsible for national research projects / internal grants UMFVBT

1. POSDRU 107/1.5/S/78702- **member, phd student**
2. UEFISCDI, PN-II-PT-PCCA-2013-4-0191: Interactomics of galactosaminoglycans in the extracellular matrix by advanced mass spectrometry, Project Director: Prof. Univ. Dr. Chim. Florentina-Daniela Munteanu- researcher/ **post-doctoral researcher**
3. UEFISCDI, PN-II-RU-TE-2014-4-2842: "Pharmacokinetic and pharmacodynamic profile *in vitro* and *in vivo* of nanoformulations with terpene compounds with antitumor effect", Project Director: S.I. dr. farm. Dorina Elena Coricovac- researcher/ **post-doctoral researcher**
4. PIII-C2-PCFI-2015/2016, New pharmaceutical approaches for modulating the bioavailability of flavonoids with chemopreventive potential for malignant melanoma, Project Director: Prof. Univ. Dr. Cristina Adriana Dehelean- researcher/ **post-doctoral researcher**
5. UEFISCDI, PN-II-PT-PCCA-2011-3.1-087Obtaining functionalized polysaccharides for applications in biomedicine and biotechnologies. Project Director Prof. Dr. Sisu Eugen researcher/ **post-doctoral researcher**
6. UEFISCDI, PN-III-P2-2.1-BG-2016-0354. Betulin and gold nanoparticles - based formulations in preventing skin aging. Project Director Prof. Codruta Soica-researcher/ **post-doctoral researcher**
7. III-C5-PCFI-2017/2018-04. ROINEXTRAMAM. Project Director Assoc. Prof. Dr. Stefana Avram-project **responsible**
8. 7. 1EXP/1233/30.01.2020 Lupeol as bioactive natural compound in the local treatment of wounds and inflammation from mild to severe pathologies: experimental evaluations and market pre-proposal acronym LUPSKINPATH. Project Director Prof. Codruta Soica-researcher/ **post-doctoral researcher**
9. UEFISCDI, PN-IV-P2-2.1-TE-2023-1790, Complex investigations on the impact of gold and betulinic acid nanoparticles on ganglioside-type biomarkers specific to malignant melanoma - **project director**

1. Sarbu M*, Ghiulai RM*, Zamfir AD (*equal contribution). Recent developments and applications of electron transfer dissociation mass spectrometry in proteomics. *Amino Acids* 2014; 46:1625-1634; Awarded scientific publication in 2014: UEFISCDI PN-II-RU-PRECISI-2014-8-4858
2. Sarbu M, Robu A, Ghiulai RM., Vukelić Ž, Clemmer DE, Zamfir AD. Electrospray ionization ion mobility mass spectrometry of human brain gangliosides. *Analytical Chemistry* 2016 88(10), 5166-5178. Awarded scientific publication in 2016: UEFISCDI PN-III-P1-1.1-PRECISI-2016- 11808
3. Marius Mioc, Codruta Soica, Vasile Bercean, Sorin Avram, Mihaela Balan-Porcarasu, Dorina Coricovac, Roxana Ghiulai, Delia Muntean, Florina Andrica, Cristina Dehelean, Demetrios A. Spandidos, Aristides M. Tsatsakis and Ludovic Kurunczi. Design, synthesis and pharmaco-toxicological assessment of 5-mercapto-1,2,4-triazole derivatives with antibacterial and antiproliferative activity. *International Journal Of Oncology* 2017 50: 1175-1183, Impact factor = 3.333. Awarded scientific publication in 2017: UEFISCDI PN-III-P1-1.1-PRECISI-2017- 18913
4. Corina Danciu, Ștefana Avram, Ioana Zinuca Pavel, Roxana Ghiulai, Cristina Adriana Dehelean, Ersilia Alexa, Daliana Minda, Cristina Petrescu, Elena-Alina Moacă and Codruța Soica. Main Isoflavones Found in Dietary Sources as Natural Anti-inflammatory Agents. *Current Drug Targets*, 2018, 19, 841-853 Impact factor = 2.642 Awarded scientific publication in 2018: UEFISCDI PN-III-P1- 1.1-PRECISI2018-23950
5. Marius Mioc, Ioana Zinuca Pavel, Roxana Ghiulai, Dorina E. Coricovac, Claudia Farcas, Ciprian-Valentin Mihali, Camelia Oprean, Vlad Serafim, Ramona A. Popovici, Cristina A. Dehelean, Michael I. Shtilman, Aristidis M. Tsatsakis and Codruta Soica. The Cytotoxic Effects of Betulin-Conjugated Gold Nanoparticles as Stable Formulations in Normal and Melanoma Cells. *Front. Pharmacol.* 2018, 9:429 Impact factor = 3.845 Awarded scientific publication in 2018: UEFISCDI PN-III-P1-1.1-PRECISI-2018- 25824
6. Mirela Nicolov *, Roxana M. Ghiulai *, Mirela Voicu, Marius Mioc, Adina Octavia Duse, Roxana Roman, Rita Ambrus, Istvan Zupko, Elena Alina Moaca, Dorina E. Coricovac, Claudia Farcas, Roxana Marcela Racoviceanu, Corina Danciu, Cristina-Adriana Dehelean, Codruta Soica (* equal contribution). Cocrystal Formation of Betulinic Acid and Ascorbic Acid: Synthesis, Physico-Chemical Assessment, Antioxidant and Antiproliferative Activity. *Front. Chem.* 2019 7:92. doi: 10.3389/fchem.2019.00092; Impact factor = 3.782 Awarded scientific publication in 2019: UEFISCDI PN-III-P1-1.1-PRECISI-2019- 35343
7. Delia Muntean, Monica Licker, Ersilia Alexa, Iuliana Popescu, Calin Jianu, Valentina Buda, Cristina Adriana Dehelean, Roxana Ghiulai, Florin Horhat, Delia Horhat, Corina Danciu. Evaluation of essential oil obtained from *Mentha×piperita* L. against multidrug-resistant strains. *Infection and Drug Resistance* 2019, 12, 2905–2914, Dovepress Impact factor = 3,000 Awarded scientific publication in 2019: UEFISCDI PN-III-P1-1.1-PRECISI-2019- 38965
8. Elena-Alina Moaca, Ioana Zinuca Pavel, Corina Danciu, Zorin Crainiceanu, Daliana Minda, Florina Ardelean, Diana Simona Antal, Roxana Ghiulai, Andreea Cioca, Mihnea Derban, Sebastian Simu, Raul Chioibas, Camelia Szuhaneck, Cristina-Adriana Dehelean. Romanian Wormwood (*Artemisia absinthium* L.): Physicochemical and Nutraceutical Screening. *Molecules* 2019, 24, 3087; doi:10.3390/molecules24173087 Impact factor = 3.060 Awarded scientific publication in 2019: UEFISCDI PN-III-P1-1.1-PRECISI-2019- 39660
9. Marius Mioc, Sorin Avram, Vasile Bercean, Ludovic Kurunczi, Roxana M. Ghiulai*, Camelia Oprean, Dorina E. Coricovac, Cristina Dehelean, Alexandra Mioc, Mihaela Balan-Porcarasu, Calin Tatu and Codruta Soica (*corresponding author). 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 6:373. doi: 10.3389/fchem.2018.00373; Impact factor = 3.782 Awarded scientific publication in 2019: UEFISCDI PN-III-P1-1.1-PRECISI-2019- 39772
10. Alexandra Mioc, Marius Mioc, Roxana Ghiulai*, Mirela Voicu, Roxana Racoviceanu, Cristina Trandafirescu, Cristina Dehelean, Dorina Coricovac, Codruta Soica (*corresponding author). Gold Nanoparticles as Targeted Delivery Systems and Theranostic Agents in Cancer Therapy. *Current Medicinal Chemistry*, 2019, 26, 1-20; Impact factor = 4.184 PN-III-P1-1.1-PRECISI-2020-48546
11. Claudia Geanina Farcas, Cristina Dehelean., Iulia Andreea Pinzaru, Marius Mioc, Vlad Socoliuc, Elena-Alina Moaca, Ștefana Avram, Roxana Ghiulai, Dorina Coricovac, Ioana Pavel, Praveen Kumar Alla, Octavian Marius Cretu, Codruta Soica, Felicia Loghin. Thermosensitive Betulinic Acid-Loaded Magnetoliposomes: A Promising Antitumor Potential for Highly Aggressive Human Breast Adenocarcinoma Cells Under Hyperthermic Conditions. *International Journal of Nanomedicine* 2020:15 8175–8200 Impact factor=6.4 PN-III-P1-1.1-PRECISI-2021-58870

12. Roxana Racoviceanu, Cristina Trandafirescu, Mirela Voicu, Roxana Ghiulai *, Florin Borcan, Cristina Dehelean, Claudia Watz, Zoltán Aigner, Rita Ambrus, Dorina Elena Coricovac, Denisa Cîrcioban, Alexandra Mioc, Camelia Alexandrina Szuhaneck, Codruta Soica (*corresponding author). Solid Polymeric Nanoparticles of Albendazole: Synthesis, Physico-Chemical Characterization and Biological Activity. *Molecules* 2020, 25, 5130; doi:10.3390/molecules25215130 Impact factor=4.412PN-III-P1-1.1-PRECISI-2021-60237
13. 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 Impact factor=4.412PN-III-P1-1.1-PRECISI-2021-60775
14. Delia Dumbrava, Liviana Alexandra Popescu, Codruta Marinela Soica, Alma Nicolin, Ileana Cocan, Monica Negrea, Ersilia Alexa, Diana Obistioiu, Isidora Radulov, Sofia Popescu, Claudia Watz, Roxana Ghiulai, Alexandra Mioc, Camelia Szuhaneck, 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 Impact factor= 4.35PN-III-P1-1.1-PRECISI-2021-62232
15. Simona Sipos, Elena-Alina Moaca, Ioana Zinuca Pavel, Stefana Avram, Octavian Marius Cretu, Dorina Coricovac, Roxana-Marcela Racoviceanu, Roxana Ghiulai, Ramona Daniela Pana, Codruta Marinela Soica, Florin Borcan, Cristina Adriana Dehelean, Zorin Crainiceanu. *Melissa officinalis* L. Aqueous Extract Exerts Antioxidant and Antiangiogenic Effects and Improves Physiological Skin Parameters. *Molecules* 2021, 26, 2369. <https://doi.org/10.3390/molecules26082369> Impact factor=4.412PN-III-P1-1.1-PRECISI-2021-60186
16. Codruta Soica, Mirela Voicu, Roxana Ghiulai*, Cristina Dehelean, Roxana Racoviceanu, Cristina Trandafirescu, Oana-Janina Rosca, Gabriela Nistor, Marius Mioc, Alexandra Mioc (*corresponding author). Natural Compounds in Sex Hormone-Dependent Cancers: The Role of Triterpenes as Therapeutic Agents. *Front. Endocrinol.* 2021 11:612396. doi:10.3389/fendo.2020.612396 Impact factor= 5.555PN-III-P1-1.1-PRECISI-2021-60457

Other awards Award for special merits in teaching activity at the "Victor Babes" University of Medicine and Pharmacy, Timișoara – University Days, December 2018

HIRSCH INDEX 21 (WOS); 21 (SCOPUS), 23 (GOOGLE SCHOLAR)

Member of professional and scientific societies College of Pharmacists Timis
Romanian Society of Pharmaceutical Sciences:
Romanian Association of Clinical Pharmacists
Romanian Society of Mass Spectrometry

Other data regarding the teaching activity

January 2024 – present Director of Department II, Faculty of Pharmacy, UMFVBT
Member of the Council of the Faculty of Pharmacy, UMFVBT

2020-2024 Member of the Council of Department II, Faculty of Pharmacy, UMFVBT
2022- 2024 Member of the Ethics Committee, UMFVBT
2019- present Member of the standing committees of the Faculty of Pharmacy:
• Research Bioethics Commission
• Evaluation Commission for the Merit Gradation
• Continuing Education and Residency Committees
• Commission for the Evaluation and Quality Assurance of Education
• Advisory Committee on Professional Ethics