



Curriculum vitae

Personal Information

Name / Name **Ghiulai Roxana Maria**

Email roxana.ghiulai@umft.ro

Cetățenia Romanian

Work

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

Professional experience

Period September 2022- present

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

Main activities and responsibilities Support courses and laboratory work in the discipline of pharmacology-pharmacotherapy for students of the Faculty of Pharmacy, Romanian and French departments and Pharmaceutical Assistance; Scientific research

Name and address of employer

Type of activity or sector of activity U.M.F. «Victor Babes» Timisoara, Faculty of Pharmacy, Eftimie Murgu sq. no. 2, Timișoara 300041
Medical-Pharmaceutical Higher Education Unit

Period September 2020- September 2022

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

Main activities and responsibilities Support courses and laboratory work in the discipline of pharmaceutical chemistry for students of the Faculty of Pharmacy, Romanian and French sections and pharmaceutical assistance; Scientific research

Name and address of employer

Type of activity or sector of activity U.M.F. «Victor Babes» Timisoara, Faculty of Pharmacy, Eftimie Murgu sq. no. 2, Timișoara 300041
Medical-Pharmaceutical Higher Education Unit

Period September 2019- present

Position or position held Clinical Pharmacist

Main activities and responsibilities Provision of clinical pharmacy services within the hospital

Name and address of employer

Type of activity or sector of activity Timisoara Municipal Emergency Clinical Hospital, 1 Hector Street, Timisoara, 300041
Health

Period September 2016 - September 2020

Position or position held Lecturer, Pharmaceutical Chemistry Discipline, Department II

Main activities and responsibilities Support courses and laboratory work in the discipline of pharmaceutical chemistry for students of the Faculty of Pharmacy, Romanian and French sections and pharmaceutical assistance; Scientific research

Name and address of employer

Type of activity or sector of activity	U.M.F. «Victor Babes» Timisoara, Faculty of Pharmacie, Eftimie Murgu sq. no. 2, Timișoara 300041
Period	Medical-Pharmaceutical Higher Education Unit
Position or position held	September 2014 – September 2016
Main activities and responsibilities	Assistant Professor, Discipline of Pharmaceutical Chemistry, Department II
Name and address of employer	Support laboratory work in the disciplines of pharmaceutical chemistry and toxicology, departments Romanian and French; Scientific research activity
Type of activity or sector of activity	U.M.F. «Victor Babes» Timisoara, Faculty of Pharmacy, Eftimie Murgu sq. no. 2, Timișoara 300041
Period	Medical-Pharmaceutical Higher Education Unit
Position or position held	September 2010 – March 2012
Main activities and responsibilities	Pharmacist
Name and address of employer	Providing pharmacy services in the community pharmacy
Type of activity or sector of activity	S.C. SIEPCOFAR S.A.- "Dona" Pharmacies Timisoara, Romania
Period	Health; community pharmacy
Position or position held	February 2009 – March 2010
Main activities and responsibilities	Pharmacist
Name and address of employer	Providing pharmacy services in the community pharmacy Pharmacie «Cynara», rue Gh. Lazar, Timisoara, Roumanie
Type of activity or sector of activity	Health; community pharmacy
Period	January 2008–December 2008
Position or position held	Pharmacist
Main activities and responsibilities	Providing pharmacy services in the community pharmacy
Name and address of employer	Pharmacy "Hygeia" Str. F. Mercy Timisoara, Romania
Type of activity or sector of activity	Health; community pharmacy
Period	January 2008 – January 2011
Position or position held	Resident Pharmacist specialty Clinical Pharmacy
Main activities and responsibilities	Rotations during the residency program and training in the specialty
Name and address of employer	Timișoara Emergency County Clinical Hospital, 156 Liviu Rebreanu Boulevard, Timisoara 300723
Type of activity or sector of activity	Health

Educație și formare

Period	November 2018- present
Qualification / diploma obtained	PhD student in the field of Pharmacy
Main areas studied	Basic pharmaceutical research
Name and type of educational institution	Victor Babes University of Medicine and Pharmacy, Timisoara

Period	October 2017- June 2019
Qualification / diploma obtained	Masters degree
Main areas studied	Phytopharmaceutical Biotechnologies
Name and type of educational institution	University of Agricultural Sciences and Veterinary Medicine of Banat Timisoara
Period	June 2016
Qualification / diploma obtained	Principal Pharmacist , Clinical Pharmacy Specialty
Period	November 2010 - June 2014
Qualification / diploma obtained	Degree of Doctor of Medicine
Main areas studied	Basic 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	Specialist pharmacist in clinical pharmacy specialty
Main areas studied	Curriculum training in the specialty
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 injured facility	Faculty of Pharmacy, "Victor Babes" University of Medicine and Pharmacy, Timisoara

Professional skills and competencies

Mother tongue

Romanian

Known foreign languages

English, French, German

Self-evaluation
At European level

	Understanding		Spoken		Writing
	Ability to listen	Reading skills	Interactjune	Expression	
English	Very good	Very good	Very good	Very good	Very good
French	Very good	Very good	Very good	Very good	Very good
German	Good	Good	Good	Good	Good

Competent social skills

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

Organizational skills and competencies

Prioritization of activities, dynamism, attention to detail

Technical skills and abilities

Activity in the research laboratory, repair of main and pharmacoporeal drugs, advanced analysis of intrumetals

Computer skills and knowledge
Other skills and competencies

MS Windows (Word, Power Point, Excel)

Leisure: travel, photography, reading, music, sports

Information

Publications in extenso
in journals with impact factor

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>. IF=4.927
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> IF=5.215
3. 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> IF=4.927
4. 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> IF=6.208
5. 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> IF=6.208
6. Marius Mioc, Andreea Milan, Daniel Malita, Alexandra Mioc, Alexandra Prodea, Roxana Racoviceanu, Roxana Ghiulai, Andreea Cristea , Florina Cărintu, 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> IF=6.208
7. Daliana Minda*, Roxana Ghiulai*, Christian Dragos Banciu, Ioana Zinuca Pavel, Corina Danciu, 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> Impact factor= 2.679
8. 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= 5.555
9. 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> Impact factor=5.076
10. 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=4.412
11. 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=4.412
12. 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> Impact factor = 2.63
13. 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 = 3.693

14. 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
15. 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; Impact factor = 3.782
16. 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; Impact factor = 1.605
17. 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; Impact factor = 1.162
18. 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; Impact factor = 2.52
19. 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; Impact factor = 3.293
20. 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; Impact factor = 1.329
21. 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> Impact factor=5.924
22. 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> Impact factor=5.924
23. 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=4.412
24. 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 Impact factor= 4.35
25. 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 Impact factor=6.4
26. 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 = 3.267
27. 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 = 2.984
28. Corina Danciu, Codruța Soica, 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 Impact factor = 2.180
29. 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

30. 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. *Farmacia*, 2018, Vol. 66, 2 Impact factor = 1.527
31. 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
32. 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 Kurunzi. 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
33. Stefana Avram, Dorina Elena Coricovac, Ioana Zinuca Pavel, Iulia Pinzaru, Roxana Ghiulai, Flavia Baderca, Codruta Soica, Danina Muntean, 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 Impact factor = 2.976
34. 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 Impact factor = 6.320
35. 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; Impact factor = 0.956
36. 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 Impact factor = 0.81
37. Mosoarca C, Ghiulai RM, Novaconi CR, Vukelić Z, Chiriac A, Zamfir AD. Application of Chip-Based Nanoelectrospray Ion Trap Mass Spectrometry to compositional and structural analysis of gangliosides in human fetal cerebellum. *Anal. Lett.* 2011; 44:1036–1049; Impact factor = 1.016

**Publications in extenso
in 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. Chim.1949* Impact factor = 1.755
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>

**Scientific articles in summary
published and presented at
national and international
conferences**

1. Marincic Dragana, Serb Alina, **Ghiulai Roxana**, Zamfir Alina, Vukelic Zelika. „Gangliosides structure and composition in brain development and malignant alteration”. International Symposium Research and Education in Innovation Era, 11-12.11.2010, Arad, Romania
2. Flangea C, Serb A, Mosoarca C, Schiopu C, **Ghiulai RM**, Manea M, Sisu E, Zamfir AD. A novel analytical approach combining NanoMate and Electron Transfer Dissociation for top-down proteomics. **The 2nd International Conference of The Romanian Society for Mass Spectrometry (RSMS), Timisoara, Romania, 1-5 May 2011**; Book of abstracts, p.12
3. 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
5. 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

4. **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.41-44
5. 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
6. 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
7. 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
8. **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
9. **Ghiulai RM**, Mosoarca C, Vukelic Z, Zamfir AD. Screening and sequencing of fetal cerebellum gangliosides by Nano-Mate high-capacity ion trap mass spectrometry. **The 1st International Conference of The Romanian Society for Mass Spectrometry (RSMS), Sinaia Romania, 25-29 April 2010**; Book of abstracts, P 16, p.64
10. **Ghiulai RM**, Mosoarca C, Vukelic Z, Sisu E, Zamfir AD. Identification and structural characterization of human fetal cerebellum gangliosides by chip-based nanoelectrospray ion trap mass spectrometry. **The 2nd International Conference of The Romanian Society for Mass Spectrometry. Timisoara, Romania, 1-5 May 2011**; Book of abstracts, p.75
11. **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 & 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
12. **Ghiulai RM**, Galusca M, Sisu I, Sisu E, Zamfir AD. High resolution mass spectrometric characterization of maltose derivatives. International Symposium Research and Education in Innovation Era. Arad, Romania 2012;
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Research internships abroad

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

Research scholarship

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

**Member /Leader National Research
Projects / UMFVBT Internal Grants**

1. 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
2. UEFISCDI, PN-II-RU-TE-2014-4-2842: "In vitro and in vivo pharmacokinetic and pharmacodynamic profile of certain nanoformulans with terpene compounds with antitumor effect", Project Director: S.I. dr. farm. Dorina Elena Coricovac
3. PIII-C2-CPIP-2015/2016, New pharmaceutical approaches to modulate the bioavailability of certain flavonoids with chemopreventive potential for malignant melanoma, Project Director : Prof. Univ. Dr. Cristina Adriana Dehelean
4. UEFISCDI, PN-II-PT-PCCA-2011-3.1-087 Obtaining functionalized polysaccharides for applications in biomedicine and biotechnology. Project Director Prof dr. Eugen Sisu
5. UEFISCDI, PN-III-P2-2.1-BG-2016-0354. Betulin and gold nanoparticles - formulations based on the prevention of skin aging. Project Director Prof univ dr. Codruta Soica
6. III-C5-CPIP-2017/2018-04. ROINEXTRAMAM. Project Director assoc. Prof. Dr. Stefana Avram
7. 1EXP/1233/30.01.2020 Lupeol as a Bioactive Natural Compound in the Local Treatment of Wounds and Inflammation of Mild to Severe Pathologies: Experimental Evaluation and Pre-Market Proposal acronym LUPSKINPATH. Project Director Prof univ dr. Codruta Soica

**Scientific articles awarded at national
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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
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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 pharmacotoxicological 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 Șoica. 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
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Other awards 1. Award for Outstanding Merits in Teaching at the University of Medicine and Pharmacy "Victor Babes", Timisoara – University Days, December 2018

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