



## Curriculum vitae

### Personal information

Name / Surname **Ghiulai Roxana Maria**

Email roxana.ghiulai@umft.ro

Citizenship  
romanian

**Workplace** Associate professor, Pharmaceutical Chemistry discipline, Faculty of Pharmacy, Department II, U.M.F. "Victor Babes" Timisoara

### Professional experience

Period	September 2020- present
Position or position occupied	Associate Professor, Pharmaceutical Chemistry discipline, Department II
Main activities and responsibilities	Supporting courses and laboratory works in the discipline of Pharmaceutical Chemistry for the students of the Faculty of Pharmacy, romanian and french sections and Pharmacy Assistant section; Scientific research
Name and address of the employer	U.M.F. "Victor Babes" Timisoara, Faculty of Pharmacy, Pta Murgu Eftimie nr. 2, Timisoara 300041
Type of activity or sector of activity	Medical-pharmaceutical higher education unit
Period	September 2019- present
Position or position occupied	Clinical pharmacist
Main activities and responsibilities	Providing clinical pharmacy services within the hospital
Name and address of the employer	Timisoara Emergency Municipal Clinical Hospital, 1 Hector Street, Timisoara, 300041
Type of activity or sector of activity	Health
Period	September 2016 - September 2020
Position or position occupied	Lecturer, Pharmaceutical Chemistry discipline, Department II
Main activities and responsibilities	Supporting courses and laboratory works in the discipline of Pharmaceutical Chemistry for the students of the Faculty of Pharmacy, romanian and french sections and Pharmacy Assistant section; Scientific research
Name and address of the employer	U.M.F. "Victor Babes" Timisoara, Faculty of Pharmacy, Pta Murgu Eftimie nr. 2, Timisoara 300041
Type of activity or sector of activity	Medical-pharmaceutical higher education unit
Period	September 2014 – September 2016
Position or position occupied	Assistant Professor, Pharmaceutical Chemistry Discipline, Department II
Main activities and responsibilities	Supporting laboratory works in the disciplines of Pharmaceutical Chemistry and Toxicology, sections Romanian and French; Scientific research activity

Position or position occupied	U.M.F. "Victor Babes" Timisoara, Faculty of Pharmacy, Pta Murgu Eftimie nr. 2, Timișoara 300041
Main activities and responsibilities	Medical-pharmaceutical higher education unit
Name and address of the employer	September 2010 – March 2012 Pharmacist
Type of activity or sector of activity	Providing pharmaceutical services in the community pharmacy
Period	S.C. SIEPCOFAR S.A. - "Dona" Pharmacies Timisoara, Romania
Position or position occupied	Health; Open circuit pharmacy
Main activities and responsibilities	February 2009 – March 2010
Name and address of the employer	Pharmacist
Type of activity or sector of activity	Providing pharmaceutical services in the community pharmacy
Period	Pharmacy "Cynara", str. Gh. Lazăr, Timisoara, Romania
Position or position occupied	
Main activities and responsibilities	
Name and address of the employer	
Type of activity or sector of activity	Health; Open circuit pharmacy
Period	January 2008 – December 2008
Position or post occupied	Pharmacist
Main activities and responsibilities	Providing pharmaceutical 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; Open circuit pharmacy
Period	January 2008 – January 2011
Position or post occupied	Resident Pharmacist specialty Clinical Pharmacy
Main activities and responsibilities	Going through the curriculum and training stages in the specialty
Name and address of employer	Timișoara Emergency County Clinical Hospital, Liviu Rebreanu Boulevard 156, Timisoara 300723
Type of activity or sector of activity	Health

## **Education and training**

Period	November 2018- present
Qualification / diploma obtained	PhD student in pharmacy
Main areas studied	Fundamental pharmaceutical research
Name and type of educational institution	"Victor Babes" University of Medicine and Pharmacy, Timisoara
Period	October 2017 - June 2019
	Master's degree

Qualification / diploma obtained	Phytopharmaceutical Biotechnologies
Main areas studied	Banat University of Agricultural Sciences and Veterinary Medicine Timisoara
Name and type of educational institution	Iunie 2016
Period	Primary— specialty Clinical Pharmacy
Qualification / diploma obtained	November 2010- June 2014
Period	Doctor of Medicine Diploma
Qualification / diploma obtained	Fundamental Biomedical Research, Advanced Instrumental Analysis
Main areas studied	"VictorBabes"University of Medicine and Pharmacy, Timisoara
Name and type of educational institution	
Period	January 2008 – January 2011
Qualification / diploma obtained	Pharmacist specialist specialty Clinical Pharmacy
Main areas studied	Curriculum training in 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 institution ninjured	Faculty of Pharmacy, University of Medicine and Pharmacy "VictorBabes", Timisoara

## Skills and competences

### Mother tongue

Romanian

Known foreign languages

English, French, German

Self assessment

European level

**English**

**French**

**German**

#### Comprehension

Listening skills

Very Good

Reading skills

Very Good

#### Speaking

Interaction

Very Good

Expression

Very Good

#### Writing

Very Good

Very Good

Very Good

Very Good

Very Good

Very Good

Well

Well

Well

Well

Well

Competences and social skills

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

Organisational skills and competences

Prioritization of activities, dynamism,attention to detail

Technical skills and competences

Activity in the research laboratory, prepariof main and officinal medicines,advancedinumatal analysis

Computer skills and knowledge

MS Windows (Word, Power Point, Excel)

Other skills and competencies

Hobbies: travel, photography, reading, music, sports

**Information****Publications in extenso  
in journals with impact  
factor**

1. 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
2. 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
3. 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
4. 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
5. 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
6. 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
7. 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
8. 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
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: 6.3389/fchem.2018.00373; Impact factor = 3.782
10. 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
11. 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
12. 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
13. 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

14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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 Impact factor = 2.180
23. 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
24. 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
25. 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
26. 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
27. 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
28. 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
29. 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

30. 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

31. Mosoarca C, Ghiulai RM, Novaconi CR, Vukelic 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 Soica. Ring-Modified Triterpene Derivatives as Potential Pharmacological Active Compounds. *Timisoara Med. 2020, 2020(2), 7; doi:10.35995/tmj20200207*

#### Scientific papers 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 2<sup>nd</sup> 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. **25<sup>th</sup> 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 Germania, 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 1<sup>st</sup> 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 2<sup>nd</sup> 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;

13. **Ghiulai RM**, Galusca M, Sisu I, Sisu E, Zamfir AD. Qtof tandem MS for the analysis of derivatized and underivatized oligosaccharides. **2<sup>nd</sup> ME- MED MS MASSA. Siena, Italy, June 30-July 4 2013**; Book of abstracts, P 4, p.67

14. **Ghiulai RM**, Sarbu M, Ilie C, Zamfir AD. High resolution mass spectrometric method for the structural investigation of native long chain polysaccharides. **25<sup>th</sup> MassSpec Forum. Vienna, Austria 17-19 February 2014**; Book of abstracts, P 11

15. 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**

16. 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

17. **Roxana Ghiulai**, Corina Danciu, Diana Antal, Lavinia Vlaia, Cristina Dehelean. Assessment of the effects of a betulinic acid nanoformulation on ear inflammation. **63<sup>rd</sup> 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

18. **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. **26<sup>th</sup> Mass Spectrometry Forum, 17-18 February 2015, Vienna, Austria**; Book of abstracts, P 8, p 52

19. 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

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21. 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

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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 Scholarships

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

#### Member / responsible for national research projects / internal grants UMFVBT

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: "Pharmacokinetic and pharmacodynamic profile *in vitro* and *in vivo* of some nanoformulans with terpene compounds with antitumor effect", Project director: S.I. dr. farm. Dorina Elena Coricovac
3. PIII-C2-PCFI-2015/2016, New pharmaceutical approaches to modulate the bioavailability of some 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 biotechnologies. Project Director Prof dr. Sisu Eugen
5. UEFISCDI, PN-III-P2-2.1-BG-2016-0354. Betulin and gold nanoparticles - based formulations in preventing skin aging. Project director Prof univ dr. Codruta Soica
6. III-C5-PCFI-2017/2018-04. ROINEXTRAMAM. Project director assoc. prof. dr. Stefana Abram
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, PhD

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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-PRECI- 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** Prize for outstanding merits in teaching activity at the "Victor Babes" University of Medicine and Pharmacy, Timisoara – University Days, December 2018

**HIRSCH INDEX** 11 (WOS); 14 (GOOGLE SCHOLAR)

**Member of professional and scientific societies** Timis College of Pharmacists  
Romanian Association of Clinical Pharmacists  
Romanian Society of Mass Spectrometry