

PERSONAL INFORMATION



**Roxana Marcela RACOVICEANU (BABUTA)**

📍 Square Eftimie Murgu, no. 2, Timisoara, Romania

✉ babuta.roxana@umft.ro  
babuta.roxana@yahoo.com

Sex F | Date of birth 17/11/1985 | Nationality Romanian

WORK EXPERIENCE

February 2021 - Present

**Lecturer**

Victor Babeş University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy, Sq. Eftimie Murgu, no. 2, RO 300041, Timisoara, Romania

- Teaching and research activities within the discipline of Pharmaceutical Chemistry, Therapeutic Chemistry, Food Supplements and OTC drugs.

**Business or sector** Education – Teaching and Research

September 2016 – Febr.2021

**Assistant Professor**

Victor Babeş University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy, Sq. Eftimie Murgu, no. 2, RO 300041, Timisoara, Romania

- Teaching and research activities within the discipline of Pharmaceutical Chemistry, Therapeutic Chemistry.

**Business or sector** Education – Teaching and Research

August 2017 – December 2018

**Chemical researcher**

Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Bvd. Vasile Pârvan, no. 6, RO 300226, Timișoara, Romania

- Project - Advanced materials based on magnetic iron oxide nanoparticles obtained by combustion and their cytotoxicity used in cancer therapy - PN-III-P4-ID-PCE\_2016-0765

**Business or sector** Education - Research

October 2015 – October 2017

**Chemical researcher**

Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Bvd. Vasile Pârvan, no. 6, RO 300226, Timișoara, Romania

- Project - Intelligent nano-pigments with near-infrared reflection, obtained by combustion method, intended for thermoreflective (cold) coatings - PNII-RU-TE-2014-4-1587

**Business or sector** Education - Research

May 2014 – December 2015

**Postdoctoral Researcher**

Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Bvd. Vasile Pârvan, no. 6, RO 300226, Timișoara, Romania

- Project - Synthesis and characterization of materials with tailored properties, intended for adsorption processes of pollutants from wastewater - "ATTRACTING"

POSDRU/159/1.5/S/137070

**Business or sector** Education - Research

Nov. 2011 – October 2014

**Research assistant in chemistry**

Politehnica University of Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Bvd. Vasile Pârvan, no. 6, RO 300226, Timișoara, Romania

- Project - Innovative solutions in the field of large surface area ceramic nanopowder preparation via combustion synthesis - 3-0024 -PN-II-RU-TE-2011

**Business or sector** Education - Research

July 2008 – August 2008

**Trainee – Internship program**

Duravit AG, Werderstraße 36, D-78132 Homberg, Germany

- Project - Experiments concerning the control of vitreous china shrinkage by means of the non-plastic composition.

Business or sector Industry – Ceramics research.

## EDUCATION AND TRAINING

September 2016 – July 2018	<b>Master's Degree – Program OTC drugs, food supplements and cosmetics</b> <p>Victor Babeş University of Medicine and Pharmacy Timișoara, Faculty of Pharmacy, Sq. Eftimie Murgu, no. 2, RO 300041, Timisoara, Romania</p> <ul style="list-style-type: none"> <li>▪ Dissertation – Evaluation of <i>Armoracia Rusticana</i> root extracts</li> </ul>	ISCED 7
2015/ 2017	<b>Psycho-pedagogical module Level I / II</b> <p>Politehnica University of Timisoara / West University of Timisoara</p> <ul style="list-style-type: none"> <li>▪ Improvement of pedagogical skills</li> </ul>	ISCED 6
October 2009 – March 2013	<b>PhD in Chemistry – Material Engineering</b> <p>Politehnica University of Timișoara, Faculty of Industrial Chemistry and Environmental Engineering, Bvd. Vasile Pârvan, nr. 6, RO 300226, Timișoara, România.</p> <ul style="list-style-type: none"> <li>▪ Thesis - Obtaining oxide compounds through polymeric precursor method</li> <li>▪ Scholarship within project ID 50783</li> </ul>	ISCED 8
October 2004 – June 2009	<b>Chemical Engineer - Science and Engineering of Oxide Materials</b> <p>Politehnica University of Timișoara, Faculty of Industrial Chemistry and Environmental Engineering, Bvd. Vasile Pârvan, nr. 6, RO 300226, Timișoara, România.</p> <ul style="list-style-type: none"> <li>▪ Diploma project - Obtaining some solid solution of <math>\text{Ca}_2(\text{Fe}_{1-x}\text{Al}_x)_2\text{O}_5</math> by combustion and ceramic method</li> </ul>	ISCED 6

## PERSONAL SKILLS

Mother tongue Romanian.

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	B2
French	A2	A2	A1	A2	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**Communication skills** A good communication ability and team spirit acquired during the participation in the development of scientific research projects.  
Ability to report succinctly and clearly the results, obtained after participating in national and international conferences.

**Job-related skills** Performing analysis on: Rigaku ULTIMA IV Diffractometer; UV-VIS Spectrophotometer Bio-Varian Cary 300; Shimadzu UV-VIS Spectrophotometer; Shimadzu Prestige-21 FTIR Spectrophotometer; Optical microscope with digital video camera L2020 A, camera UI 1440 C, Guangzhou; Thermogravimetric Mettler Toledo.

**Computer skills**

- use of the OriginPro8 program for graphical processing of experimental data;
- good command of Microsoft Office™ tools;
- use of the Biovia Draw 2019 program.

Driving licence      Driving licence category  
 - B

## ADDITIONAL INFORMATION

### Publications Conferences

Articles published as author / co-author:

- 32 articles in extenso in ISI-rated journals with impact factor;
- 2 articles in extenso in ISI listed journals without impact factor;
- 3 articles in BDI indexed journals;
- 2 chapters published by prestigious publishing houses;
- 2 patent proposal.

Co-author of the book - Pharmaceutical Chemistry - Laboratory works, ed. II revised, Ed. Victor Babeş, Timișoara, 2020, ISBN 978-606-786-194-5, 227 p.

Papers presented at national / international conferences.

- author / co-author > 40

### Research Scholarship

Postdoctoral researcher - "Increasing the attractiveness and performance of doctoral and postdoctoral training programs for researchers in engineering sciences - ATTRACTING" POSDRU / 159 / 1.5 / S / 137070

Doctoral researcher - Strategic project ID 50783 "Through doctoral scholarships for European level research" Contract POSDRU / 88 / 1.5 / S / 50783

### Memberships in international research project

Research project no. 3-0024, PN-II-RU-TE-2011, funded by UEFISCDI;

Research project no. 142 / 01.10.2015, PNII-RU-TE-2014-4-1587, financed by UEFISCDI;

Research project no. 169 / 01.08.2017, PN-III-P4-ID-PCE\_2016-0765, funded by UEFISCDI;

UMFVBT internal grant, III-C5-PCFI-2017 / 2018-04, ROINEXTRAMAM;

UMFVBT internal grant, 1EXP / 1233 / 30.01.2020, LUPSKINPATH.

### Recognition of professional / scientific prestige

- Bologna Teacher Award, 2017
- Awarded articles: 17 - through the PRECISI program, national level - UEFISCDI.
- Hirsch Index  
   h = 8 according to Web of Science / 03.01.2022  
   h = 10 according to Google Scholar / 03.01.2022
- Member in the editorial board

03.2021 – present - Topic Editor – Journal Materials (Q2, FI=3.623) - Advanced Nanomaterials and Nanotechnology Section

03.2021 – present - Topic Editor – Journal Pharmaceutics (Q1, FI=6.321); Guest Editor for the Special Issue "Magnetic Nanomaterials – a Promising Approach in Cancer Therapy" - section Nanomedicine and Nanotechnology.

- Peer Reviewer  
   48 verified reviews

### Representative Publications

- Mioc, Alexandra; Mioc, Marius; Ghiulai, Roxana; Voicu, Mirela; **Racovicianu, Roxana**; Trandafirescu, Cristina; Dehelean, Cristina; Coricovac, Dorina; Soica, Codruta. Gold Nanoparticles as Targeted Delivery Systems and Theranostic Agents in Cancer Therapy, CURRENT MEDICINAL CHEMISTRY, Vol:26, Issue:35, Pages:6493-6513, DOI: 10.2174/0929867326666190506123721, Published: 2019, WOS:000502614500009. IF=4.184 (2019)
- Moaca, Elena-Alina; Mihali, Ciprian-Valentin; Macasoi, Ioana-Gabriela; **Racovicianu (Babuta), Roxana\*(corresponding author)**; Soica, Codruta; Dehelean, Cristina-Adriana; Pacurariu, Cornelia; Florescu, Sorin. Fe3O4@C Matrix with Tailorable Adsorption Capacities for Paracetamol and Acetylsalicylic Acid: Synthesis, Characterization, and Kinetic Modeling, MOLECULES, Volume: 24 Issue: 9, Article Number: 1727, DOI: 10.3390/molecules24091727, Published: MAY 1 2019, WOS:000469518100086. IF=3.267 (2019)
- Macasoi, Ioana; Mioc, Alexandra; Mioc, Marius; **Racovicianu, Roxana**; Soica, Irina; Cheveresan, Adelina; Dehelean, Cristina; Dumitrascu, Victor. Targeting Mitochondria through the Use of Mitocans as Emerging Anticancer Agents, CURRENT MEDICINAL CHEMISTRY, Volume: 27, Issue: 34, Pages: 5730-5757, DOI: 10.2174/0929867326666190712150638, Published: 2020, WOS:000581009700004. IF=4.53 (2020)
- **Racovicianu, Roxana**; Trandafirescu, Cristina; Voicu, Mirela; Ghiulai, Roxana; Borcan, Florin; Dehelean, Cristina; Watz, Claudia; Aigner, Zoltan; Ambrus, Rita; Coricovac, Dorina Elena; Circioban, Denisa; Mioc, Alexandra; Szuhaneck, Camelia Alexandrina; Soica, Codruta. Solid Polymeric Nanoparticles of Albendazole: Synthesis, Physico-Chemical Characterization and Biological Activity,

- MOLECULES, Volume: 25, Issue: 21, Article Number: 5130, DOI: 10.3390/molecules25215130, Published: NOV 2020, WOS:000589223000001. IF=4.411 (2020)
- Ghiulai, Roxana.; Roșca, Oana Janina.; Antal, Diana Simona; Mioc, Marius; Mioc, Alexandra; **Racoviceanu, Roxana**; Macașoi, Ioana; Olariu, Tudor; Dehelean, Cristina; Crețu, Octavian Marius; Voicu, Mirela; Șoica, Codruța. Tetracyclic and Pentacyclic Triterpenes with High Therapeutic Efficiency in Wound Healing Approaches, *Molecules* 2020, 25(23), 5557; doi.org/10.3390/molecules25235557, Published Nov 2020, WOS:000597625200001. IF=4.411 (2020)
  - Borcan, Florin; Len, Adél; Dehelean, Cristina A.; Dudás, Zoltán; Ghiulai, Roxana; Iftode, Andrada; **Racoviceanu, Roxana**; Soica, Codruta M. Design and Assessment of a Polyurethane Carrier Used for the Transmembrane Transfer of Acyclovir, *Nanomaterials* 2021, 11(1), 51; doi.org/10.3390/nano11010051, Jan 2021, WOS: 000610674700001. IF=5.076 (2020)
  - Soica, Codruta; Voicu, Mirela; Ghiulai, Roxana; Dehelean, Cristina; **Racoviceanu, Roxana**; Trandafirescu, Cristina; Rosca, Oana-Janina; Nistor, Gabriela; Mioc, Marius; Mioc, Alexandra. Natural Compounds in Sex Hormone-Dependent Cancers: The Role of Triterpenes as Therapeutic Agents, *FRONTIERS IN ENDOCRINOLOGY*, Volume: 11, Article Number: 612396, DOI: 10.3389/fendo.2020.612396, Published: JAN 21 2021, WOS:000614399800001. IF=4.85 (2020)
  - Simona Sipos, Elena-Alina Moaca, Ioana Zinuca Pavel, Stefana Avram, Octavian Marius Crețu, 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>, WOS:000644586300001, IF=4.411 (2020)
  - Kazakova, Oxana, **Roxana Racoviceanu** (#Authors with equal contribution jointly sharing the position of first author), Anastasiya Petrova, Marius Mioc, Adrian Militaru, Lucreția Udrescu, Mihai Udrescu, Adrian Voicu, Jason Cummings, Gregory Robertson, Diane J. Ordway, Richard A. Slayden, and Codruța Șoica. 2021. "New Investigations with Lupane Type A-Ring Azepane Triterpenoids for Antimycobacterial Drug Candidate Design" *International Journal of Molecular Sciences* 22, no. 22: 12542. <https://doi.org/10.3390/ijms222212542>, IF=5.924 (2020)
  - Prodea, Alexandra, Alexandra Mioc, Christian Banciu, Cristina Trandafirescu, Andreea Milan, **Roxana Racoviceanu**, Roxana Ghiulai, Marius Mioc, and Codruta Soica. 2022. "The Role of Cyclodextrins in the Design and Development of Triterpene-Based Therapeutic Agents" *International Journal of Molecular Sciences* 23, no. 2: 736. <https://doi.org/10.3390/ijms23020736>, IF=5.924 (2020)

17.01.2022

Racoviceanu Roxana Marcela