

Dr. Anca-Roxana PETROVICI, Post-Doc

Scientific Researcher – 2017-present - Centre of Advanced Research in Bionanoconjugates and Biopolymers, “Petru Poni” Institute of Macromolecular Chemistry (ICMPP), Iasi, Romania

Research Assistant: 2012-2017 - Centre of Advanced Research in Bionanoconjugates and Biopolymers, “Petru Poni” Institute of Macromolecular Chemistry (ICMPP), Iasi, Romania

Education: 2011: PhD in Chemical Engineering, „Gh Asachi” Technical University of Iasi. **2008:** Master’s Degree, “Al. I. Cuza” University, Iasi. **2006:** B.Sc. in Technological biochemistry, “Al. I. Cuza” University, Iasi.

Project - team member: 7 in ICMPP; **Project - team coordinator:** 1 in ICMPP

International conferences: 9 oral communications, 15 posters

Practical courses: 1. INTERA 3 Summer School, Bucharest, Romania, 2019. 2. INTERA 2 Workshop, Bucharest, Romania, 2019. 3. Electrolytes polymers Training, ICMPP, Iasi, Romania, 2017. 4. Training on „Electroanalytical techniques in life science” and „Course grained modelling of DNA: Application to a DNA unusual structure, the G-quadruplexes”, ICMPP, Iasi, Romania, 2017. 5. Training on Nanotoxicology and Biomonitoring, and Nanoparticles as a flexible transport platform for various applications, ICMPP, Iasi, Romania, 2017. 6. Training on UV/EB Curing-Principle, 3D Structures, Coatings and Thin Film Technologies, ICMPP, Iasi, Romania, 2017. 7. Training on Biobased polymers and matrix to develop green composites, Iasi, Romania, 2016. 8. Bio-nanotehnologii și Biotehnologii medicale și farmaceutice pentru o viață sănătoasă, Hotel Unirea, Iași, Romania, 2016. 9. Workshop on “Patenting at European Patent Office”, ICMPP, Iasi, Romania, 2016. 10. Training on „Aplicatii ale spectrometriei de masa in cercetare”, ICMPP, Iasi, Romania, 2016. 11. Research stay (3 months), University of Perugia, Department of Applied Biology, Section of Microbiology & Industrial Yeasts Collection DBVPG, Perugia, Italy, 2011;

Expertise fields: Natural compounds obtained, purification and characterization from LAB, bacteria and yeasts fermentation; Biological active compounds from vegetal materials extraction and characterization; Matrix cryo-synthesis an characterization, all by NMR, FTIR, TG/DSC, DLS, GPC, HPLC, GC, UV-VIS, AAS techniques.

Scientific achievements: Lactic acid bacteria (LAB) and red yeasts isolations and purification, LAB and yeast fermentations, exopolysaccharide biosynthesis by LAB fermentations, extraction, purification and characterizations of exopolysaccharide; Extraction, isolation and characterization of polyphenols and biological active compounds from vegetal materials; Matrix cryo-synthesis using natural and synthetic polymers, and phisico-chemical characterization. 13 publications in international journals; 24 international (9 oral presentations) and 6 national (4 oral presentations) conferences; international impact/recognition in the field is reflected by: h-index (Google Scholar): 4, Number of citations 32.