

CURRICULUM VITAE



Dr. Murariu Mioara (Maiden name: Miron)

Nationality: Romanian

Date and place of birth: November 29th 1971, Falticeni, Suceava, Romania

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Education, degree and diplomas

- Oct. 2003 – Jun. 2007: Bachelor of Science in Chemistry - “Al. I. Cuza” University of Iasi, Romania, Faculty of Chemistry
- Oct. 2007 – Jun. 2008: Master of Science in Polymeric Biomaterials - “Ghe. Asachi” Technical University of Iasi, Romania, Faculty of Chemical Engineering and Environmental Protection
- Nov. 2007 – Dec. 2015: Ph.D. in Macromolecular Chemistry with thesis “Optically active acrylate monomers and copolymers. Synthesis, characterization, applications”, scientific coordinator: Dr. Emil C. Buruiana - “Petru Poni” Institute of Macromolecular Chemistry,

Professional experience:

- **Scientific researcher:** Apr. 2020 – present - “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania; Polyaddition and Photochemistry Department

Main objectives: - Development of new strategies for the synthesis of self-assembly and optically active copolymers bearing common amino acids in aqueous medium

- **Research assistant:** Nov. 2013 – Mar. 2020 - “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania; Polyaddition and Photochemistry Department

Main objectives: - Synthesis and study of optically active amino acid-based random copolymers in aqueous solution (self-assembly behavior, surface tension, fluorescence properties, etc.)

- **PhD student:** Nov. 2007 – Dec. 2015 - “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania; Polyaddition and Photochemistry Department, Tutor: Dr. E.C. Buruiana

Main objectives: - Synthesis and characterization of chiroptically active monomers with/without amino acids pendant sequences and their corresponding copoly(meth)acrylates; functionalization of copolymers with various chromophores for fluorescent chemosensors applications. Materials characterization using spectral analysis (FTIR, ¹H/¹³C NMR, UV-Vis), thermal methods (TGA, DSC), molecular weight measurements (GPC), optical activity (polarimetry and circular dichroism) and fluorescence measurements.

Publications, research projects and scientometrics indicators:

BrainMap ID: U-1700-035R-1402

Publications: 6 articles ISI indexed

Scientific presentations: 7 oral and 4 posters

Research projects: member in 1 national projects

Representative Peer Reviewed Publications:

- Murariu M., Nechifor M., Fifere N., Buruiana E.C., *Pyrene functionalized side chain alanine and histidine containing copolyacrylates prepared by free radical copolymerization*, J. Appl. Polym. Sci. 2017, 134(6), 44457.
- Rusu R.D., Simionescu B., Oancea A.V., Geba M., Stratulat L., Salajan D., Ursu L.E., Popescu M.C., Dobromir M., Murariu M., Cotofana M., Olaru M., *Analysis and structural characterization of pigments and materials used in Nicolae Grigorescu heritage paintings*, Spectrochim. Acta A Mol. Biomol. Spectrosc. 2016, 168, 218-229.
- Buruiana. E.C., Murariu M., *Copolymers based on N-acryloyl-L-leucine and urea methacrylate with pyridine moieties*, J. Serb. Chem. Soc. 2016, 81 (3), 307-322.
- Murariu M., Buruiana E.C., *Synthesis and characterization of new optically active poly(acrylamide/methacrylurea-co-vinyl acetate) copolymers with dansyl units*, Design. Monom. Polym. 2015, 18(2), 118-127.