

## Dr. Mariana PINTEALA, Senior Researcher

**Positions:** **2010-present:** Head of the department Centre of Advanced Research in Bionanoconjugates and Biopolymers, “Petru Poni” Institute of Macromolecular Chemistry; **2007-present:** Researcher grade I, “Petru Poni” Institute of Macromolecular Chemistry (ICMPP), Iasi, Romania; **1996-2006:** Researcher grade II (2000-2006), Researcher grade III (1996-2000) ICMPP; **1990-1995:** Researcher, combined with graduate studies ICMPP; **1987-1990:** Master of Engineering (MEng) studies ICMPP; **1986-1987:** MEng studies at Antibiotics Research Institute, Iasi, Romania; **1984-1987:** MEng trainee at Antibiotics Factory, Iasi, Romania

**Education:** **1995:** **PhD** in Chemical Engineering and Environmental Protection, Department of Natural and Synthetic Polymers, “Gheorghe Asachi” Technical University (TUIASI), Iasi, Romania; **1979-1984:** **Bachelor & Master** in Chemical Engineering, Organic Chemistry, TUIASI, (formerly “Polytechnic Institute”) Iasi, Romania

**Post-doctoral:** **2000-2008:** University of Detroit Mercy (host: Prof. S. Schlick), USA; **1996-1998:** CNRS-Evry-Val d'Essonne Université, Paris, France (host: Prof. H. Cheradame)

**Fellowships and awards:** **2016-2017:** Senior Fulbright fellowship; **2017:** “C. Simionescu” Award for excellence in macromolecular chemistry Romanian International Chapter of ACS - ACS Chemistry for life/2017; **1994:** “N. Teclu” Prize of the Romanian Academy

**Supervision of graduate students and postdoctoral fellows:** **2011-2019:** 11 Postdocs / 8 PhD / 6 Master Students at ICMPP

**Organization of scientific meetings:** **2013:** Scientific committee: 12<sup>th</sup> International Conference on Colloid and Surface Chemistry, May 9-11, 2013, Iasi, Romania (<https://icmpp.ro/events/conferences/ccsc2013.html>); **2017, 2018:** Co-organizer/coordinator of ERA CHAIR project) of Frontiers of Macromolecular and Supramolecular Science Symposia – <https://www.icmpp.ro/ro/events/conferences/cristoforix/program.pdf/>, ~ 150 p, <https://www.icmpp.ro/ro/events/conferences/nineth/Program%20CIS%202017.pdf>, ~150 p, <https://pubs.rsc.org/en/content/articlelanding/2018/py/c8py90063a#!divAbstract>; **2019:** Co-organizer (ERA CHAIR project) 10<sup>th</sup> edition of the “Week of Innovative Regions in Europe”- WIRE X 2019, 26<sup>th</sup>, Iasi, June 26-28, 2019 (<http://wire2019.eu>), ~500 p

**Institutional responsibilities:** **2011-present:** Supervisor of PhD thesis and Member of the scientific council of ICMPP; **2017-present:** Member of the doctoral schools of: “Grigore T. Popa” University of Medicine and Pharmacy (UMF) Iasi, “Alexandru Ioan Cuza” University (UAIC) Iasi and TUIASI; **2016-2018:** Organizer/coordinator of the Internal Seminars/trainings in the ERA CHAIR project ([http://www.intelcentru.ro/suprachem\\_lab/](http://www.intelcentru.ro/suprachem_lab/)) at ICMPP; **2010-present:** Member of PhD thesis committees: in UAIC, UMF and TUIASI (9 theses), Karunya University, India (1 thesis in 2014), Université Nice (1 thesis 2015)

**Reviewing activities:** **2017-present:** Member of the National Council for Attesting Titles, Diplomas and Certificates, Ministry of Education, Romania (<http://www.cnatdcu.ro/paneluri-cnatdcu/incepand-cu-data-de-7-septembrie-2012/matematica-si-stiinte-ale-naturii/comisia-de-chimie/>); **2017-present:** Evaluator/Rapporteur for Romanian National Science Council, Ministry of Education; **2010-present:** Peer reviewer: Journal of Molecular Liquids (outstanding contribution in 2017), Materials Science & Engineering C, Carbohydrate Polymers, Journal of Molecular Catalysis.B, Enzymatic, Chemical Engineering Journal, Bioorganic Chemistry, Arabian Journal of Chemistry), ACS

(Macromolecules, ACS Nano), RSC (Physical Chemistry Chemical Physics), MDPI (Polymers, Molecules), and many more

**Memberships of scientific societies: 2010-present:** Association of Romanian Engineers (<https://www.feani.org/members/romania>) and Romanian Chemical Society (<http://www.schr.ro>)

**Major collaborations:** \*Prof. Aatto Laaksonen, Stockholm Univ (aatto.laaksonen@mmk.su.se) in the area of “Biomodelling: from molecules to populations (<http://www.intelcentru.ro/5D-nanoP/>); \*Prof. Claudiu T. Supuran (claudiu.supuran@unifi.it), in the area of selective inhibitors and activators of carbonic anhydrase, the Neurofarba Department, Section of Pharmaceutical and Nutriceutical Sciences, University of Florence, Italy; \*Prof. Louise De Cola (decola@unistra.fr) in the area of stimulus responsive breakable materials for the targeted delivery of small RNAs or other biomolecules *in vivo*, Louis Pasteur Strasbourg University, France; \*Prof. Danny O'Hare (d.ohare@imperial.ac.uk) in the area of biosensors, Department of Bioengineering, Imperial College, London, UK; \*Dr. Clemente Capasso (clemente.capasso@ibbr.cnr.it), in the area of enzymatic degradation of PET, Institute of Biosciences and Bioresource, Naples, Italy; \*Acad. Maya Simionescu (maya.simionescu@icbp.ro), in the area of mimicking living matter mechanisms by five-dimensional chemistry, Institute of Cellular Biology and Pathology, Bucharest, Romania

**International conferences: Plenary speaker: Frontiers of Macromolecular and Supramolecular Science (Drug delivery systems and gene therapy non-viral vectors), 2016:** <https://icmpp.ro/ro/events/conferences/eighth/Program%20CIS2016.pdf>, **2017:** <https://icmpp.ro/ro/events/conferences/nineth/Program%20CIS%202017.pdf>, **2018:** <https://www.icmpp.ro/events/conferences/cristoforix/program.pdf>), **2019: EuroNano Forum, Nanotechnology under H2020 and beyond (Drug delivery systems and gene therapy non-viral vectors. Design and applications),** June 12-14, 2019, Bucharest, Romania (<https://www.euronanoforum2019.eu/speakers-2/>); **Invited speaker: FFSCI-NanoScience/EMN (Non-viral vectors for gene therapy),** Dubrovnik, Croatia, May 3-7, 2017; **9<sup>th</sup> World Gene Convention, (Nanocarriers-Based Polycations as Polyplexes for Gene Therapy. Design and Characterization),** November 13-15, 2018, Singapore (<http://www.bitcongress.com:80/wgc2018/scientificprogram6.asp>).

**Expertise:** \*Synthesis of nanoconjugates (core: Fullerene C<sub>60</sub>, cyclodextrins, magnetite, gold oxide, cerium oxide) with biomedical application; \*Inclusion complexes of cyclodextrins/modified cyclodextrins with different bioactive molecules; \*Pseudo- and polyrotaxanes of cyclodextrins with (co)polymers; \*Synthesis and characterization of polymers and copolymers; \*Cationic, anionic, and radical copolymerization; Structure-property relationship evaluation, data analysis, and interpretation; \*Interpolymer complexes; \*Purification and analysis of antibiotics; \*ESR spectroscopy.

**Skills:** \*Ability to initiate and conduct research projects; \*Capable of making decisions at the administrative level and able to conduct research, either independently or as a team member; \*Working on international grants and industrial projects with researcher teams from diverse countries; \*Adaptive to new research environments and circumstances.

**Hirsch index: 20, i10-index: 44,** number of citations >1300 (scholar google, <https://scholar.google.com/citations?user=npr0z-cAAAAJ&hl=en>), more than 140 published papers, 1 patent and 2 pending.