

Mariano Grasselli



Currently Full Professor at the National University of Quilmes (UNQ) and Principal Researcher at CONICET (1999 to date). Director and founder of the Laboratory of Biotechnological Materials (UNQ-CONICET, 2010 to date).

Biochemist (UBA, 1989, Diploma of Honor) and PhD in Organic Chemistry (UBA, 1991). Best thesis award 1991 - "*Stimulus to Scientific Research*" Award. FFyB-UBA, 1991.

Short postdoctoral trainings in the field of protein biotechnology (Braunschweig-Germany, 1995) and ionizing radiation processing in several institutes (Takasaki-Japan, 1998; Budapest-Hungary, 1999, 2000, 2001; Ecole Polytechnique, 2003 / CEA-Saclay, 2004-France; Moscow-Russia, 2018).

Guest Scientist at Universities and Research Institutes in Colombia, Brazil, Peru, France, Hungary, Poland and Germany in the field of protein purification and processing by ionizing radiation.

Guest Expert in the field of nanomaterials prepared by ionizing radiation (IAEA, 2013 and IPEN-Brasil, 2015). +75 published articles (+25 on ionizing radiation), 5 patents, 2 book chapters and 1 book.

Google Scholar Metrics

	All	Since 2019
Citations	1436	516
h-index	23	13
i10-index	45	18

Reviewer of scientific journals in the field of ionizing radiation and biotechnology.

Mentor of 8 PhD theses.

Awarded of several research grants and recipient of international research projects such as EU-7FP, IAEA-CRP, BMBF, DAAD. Mention award in the field of photochemistry and radiation

chemistry by the *Polish Radiation Research Society, memorial to Maria Sklodowska-Curie (PRRS)*. 2016.

Member of the Argentine Society of Biophysics.

Experience in the field of proteins and their purification methods, development of materials for chromatography, track etched membranes and modification of materials by ionizing radiation (e-beam, gamma and X-rays) for biotechnology applications.

Current interest focuses on the nano-structuring of polymers and proteins by ionizing radiation and their interaction with biological media.

Recently published scientific works (since 2022)

- 78- Radrizzani, M., C. Y. Flores, J. Stupka, C. D'Alessio, O. Garate, LJ Mendoza Herrera, A. A. Castello, J. S. Yakisich, C. Perandones, and **M. Grasselli**. *Aptamer-quantum dots platform for SARS-CoV-2 viral particle detection by fluorescence microscopy*. International Journal of Biological Macromolecules **2024**: 134839.
- 77- Traverso, A.N., Fragale, D.J., Viale, D.L., Garate, O., Torres, P., Valverde, G., Berra, A., Torbidoni, A.V., Yakisich, J.S., **Grasselli, M.** and Radrizzani, M., **2023**. *Two-Step Preparation of Protein-Decorated Biohybrid Quantum Dot Nanoparticles for Cellular Uptake*. Pharmaceutics, 15(6), p.1651.
- 76- **M Grasselli**, EE Smolko, *Designing protein adsorptive materials by simultaneous radiation-induced grafting polymerization: A review*, Radiation Physics and Chemistry, **2022**, 110055
- 75- AR Jalilian, B Ocampo-García, W Pasanphan, TM Sakr, ...,*IAEA Contribution to Nanosized Targeted Radiopharmaceuticals for Drug Delivery*, Pharmaceutics **2022**, 14 (5), 1060.
- 74- E Achilli, CY Flores, CF Temprana, SV Alonso, M Radrizzani, M **Grasselli** *Enhanced gold nanoparticle-tumor cell recognition by albumin multilayer coating*, OpenNano **2022**, 6, 100033
- 73- C Gimenez, ML Sánchez, HA Valdez, ME Rodriguez, **M Grasselli**, *PCR-tips for rapid diagnosis of bacterial pathogens*, Applied Microbiology and Biotechnology **2022**, 106 (17), 5729-5739