

Maria do Carmo Pereira



Maria do Carmo Pereira completed her Ph.D. in Chemical Engineering in 1998 at the Universidade do Porto, Faculdade de Engenharia, Portugal. She is Associate Professor at Universidade do Porto, Faculdade de Engenharia, and the Group Leader of Supramolecular Assemblies at the Laboratory for Process Engineering, Environment, Biotechnology and Energy (LEPABE). The main research areas that she is working on are i) Nanotechnology and interfacial phenomena; supramolecular interactions including novel nano-engineered biomaterials for therapeutic applications; nanocarriers to target the blood brain barrier, nanostructured electrochemical immunosensors for detection of neurodegenerative diseases; and environment (air quality and atmospheric pollution with emphasis on public and environmental health).

Joana A. Loureiro



Joana A. Loureiro is Assistant Professor at the Faculty of Engineering, University of Porto (FEUP) and senior researcher at the Laboratory for Process Engineering, Environment, Biotechnology and Energy (LEPABE). Loureiro did her bachelors and masters in chemical engineering, followed by a bachelors and masters in pharmaceutical sciences. She received her PhD degree in chemical and biological engineering from FEUP in 2013. Since 2010, Loureiro has been working in the field of drug delivery nanosystems for brain disease treatment. She has expertise in protein misfolding and pathogenic biomarkers associated with Alzheimer's disease. Her main research areas of interest comprise: i) nanotechnology and interfacial phenomena; ii) effects of fluorinated systems and peptides on the aggregation of amyloid-beta peptide; iii) conformational studies of proteins and peptides self-organized systems and polymer surfaces; and iv) design and production of inorganic and polymeric nano-systems for pharmaceutical application.

Maria João Ramalho



Maria João Ramalho holds a Ph.D. in Biological and Chemical Engineering. Currently, she is a researcher at LEPABE (Laboratory for Process Engineering, Environment, Biotechnology and Energy) and a visiting researcher at i3S (Institute for Research and Innovation in Health, University of Porto). Her research interests focus on the design, optimization, characterization, and in vitro evaluation of nanoparticles for the encapsulation of bioactive compounds for several health applications.

Stéphanie Andrade



Stéphanie Andrade completed her Ph.D. in 2022 in Biological and Chemical Engineering at the Faculty of Engineering of the University of Porto (FEUP). Currently, she is a researcher at LEPABE (Laboratory for Process Engineering, Environment, Biotechnology and Energy). Her main research activity is focused on: i) the production and characterization of nanoparticles for the encapsulation of bioactive compounds for pharmaceutical application; ii) the effects of bioactive compounds on the aggregation kinetics of amyloid beta peptide; iii) membrane biophysics, more particularly in drug-membrane interactions which involves drugs' pharmacological activity and toxicity.

Meghna Dabur



Meghna Dabur is a Ph.D. candidate in Chemical and Biological Engineering at the Faculty of Engineering of the University of Porto (FEUP) since September 2019. She obtained her bachelor's in chemistry at the University of Delhi, followed by a graduate experience in Industrial Chemistry. Ms. Dabur completed her masters at the Free University of Berlin, Berlin, Germany. Currently, her research interest encompasses the following topics, i) Drug delivery systems for Alzheimer's disease, focusing mainly on fluorinated nanoparticles, ii) in-vitro and in-vivo testing of surface-modified nanoparticles for brain targeting and bioavailability.

Débora Nunes



Débora Nunes is a Ph.D. student of Biological and Chemical Engineering at the Faculty of Engineering of the University of Porto (FEUP). She obtained her MSc in Biomedical Engineering in 2020 at the same faculty. Her main research activity is focused on: i) the production and characterization of nanoparticles for the encapsulation of active pharmaceutical ingredients for delivery across the BBB; ii) the production and characterization of nanoparticles incorporated in hydrogels for drug delivery applications.

Pedro Carneiro



Pedro Carneiro holds a PhD in Chemical and Biological Engineering (2023), conducting his research at the Laboratory for Process Engineering, Environment, Biotechnology and Energy (LEPABE) and Associated Laboratory for Green Chemistry (LAQV) of (REQUIMTE), located in the Departments of Chemical Engineering at FEUP and ISEP, respectively. During the last year, he was a post-doctoral fellow at i3S (Institute for Research and Innovation in Health, University of Porto). His main research interests focus on the design and application of cutting edge nanotechnology and nanoscience-based biosensors with interest for diagnostics.