

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, and graduated in Chemical Engineering in 1993 at Universidade do Porto, Faculdade de Engenharia, Portugal. She is Assistant 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; development of nanostructured electrochemical immunosensors for detection of neurodegenerative diseases; and environment (air quality and atmospheric pollution with emphasis on public and environmental health).

Manuel A. N. Coelho



Manuel A. N. Coelho finished his PhD in Chemical Engineering from U. Porto in 1987. After post-doc studies at University of Stanford (USA), University of Davis (USA) and IBM Amaden Research Center (CPIMA), he became an Assistant Professor of Chemical Engineering at FEUP. Her main research areas are i) nanocapsules and nanoparticles with functionalized surfaces; ii) nanoparticle biocompatibility, nanoparticle/drug cell uptake mechanisms, interaction with proteins; iii) functionalized gold nanoparticles for drug delivery and cancer therapy; iv) β -amyloid peptides; v) functionalized liposomes/nanoparticles to target the blood brain barrier; vi) air pollutants /exposure risk assessment.

Joana A. Loureiro



Dr. Joana A. Loureiro is a researcher at the Laboratory for Process Engineering, Environment, Biotechnology and Energy (LEPABE) since 2010 and Invited Assistant Professor at the Faculty of Engineering, University of Porto (FEUP) since 2018. Dr. Loureiro did her bachelors and masters in chemical engineering, followed by a bachelors and masters in pharmaceutical sciences. She received her Ph.D. degree in chemical and biological engineering from FEUP in 2013. Since 2010, Dr. 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 recently completed her Ph.D. in Biological and Chemical Engineering at the Faculty of Engineering of the University of Porto (FEUP). She obtained her MSc in Biomedical Engineering in 2015. 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.

Pedro Carneiro



Pedro Carneiro received a MSc degree in Biomedical Engineering from the Faculty of Engineering of the University of Porto (FEUP). He is currently a Ph.D. student in the Chemical and Biological Engineering doctoral program at FEUP, conducting his research at LEPABE (Laboratory for Process Engineering, Environment, Biotechnology and Energy) and REQUIMTE-LAQV (Associated Laboratory for Green Chemistry of the Network of Chemistry and Technology) in the Departments of Chemical Engineering of FEUP and in the School of Engineering of the Polytechnic of Porto (ISEP), respectively. His research interests include the design and optimization of biosensors, exploring the integration of biomaterials and nanomaterials, towards detection of neurodegenerative diseases biomarkers.

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) encapsulation of natural compounds into different lipids model systems.

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.