COMMITTED TO EXCELLENCE IN PHARMACY
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RESEARCH PROJECTS

Development of bioactive compounds:
• Computer-aided drug design and optimization of synthetic procedures by regio- and stereo-selective methodologies for the synthesis of new small molecules/saccharides/glycoconjugates as drug candidate and/or diagnostics for widespread pathologies
• Development of chemical technologies for eco-friendly synthesis/extraction of bioactive compounds

Biochemical and molecular signals in cancer and neurodegenerative diseases:
• Study of the intracellular pathways of cell death, survival and differentiation;
• Investigation of pathological mechanisms in cells
• Identification of new pharmacological targets and biological markers

Pharmacological and nutraceutical evaluation of synthetic and natural entities for the treatment of:
• Cardiovascular pathologies
• Cancers
• Respiratory diseases

Applied pharmaceutical technology:
• Development of polymeric nanoparticles, liposomes or hydrogel based pharmaceutical forms for ocular, oral and dermatological drug delivery
• Development, characterization and application of synthetic or natural derived polymeric excipients
• Development of nutraceuticals and cosmetics
Industrial technological innovation and economic growth by exploitation of the patented research. Field of application: pharmaceutical, nutraceutical and cosmetic industry.

- Consultancy and technical assistance for private companies in chemical, technological and pharmacological fields: **117 projects** (2013-2018)
- Institutional funded grants: **73 projects** (2013-2018)

Educational/dissemination actions based on social media and press action: improved citizen awareness on perspectives and progress in the biomedical research, performed at the department.