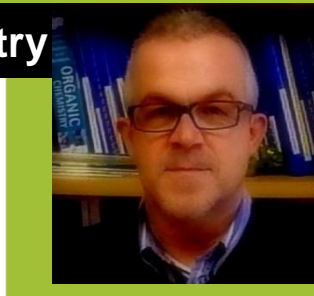


Chemistry Department - REQUIMTE

Analytical - Organic - Forensic Chemistry



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## Objectives

The scientific activity developed integrates the area of Chemistry of Natural Products, Chromatographic Techniques (GC, GC-MS, HPLC, LC-MS, ESI, APci, Chiral Chromatography), Radical Organic Chemistry, Proteomic Analysis and Xenobiotics in wastewater/environment.

Development of methods/applications of chromatographic and hyphenated techniques to their increasingly extended research themes. Biosensors - Biomarkers - Development/implementation - Nanotechnology. Synthesis and characterization of organic compounds with potential bioactivity.

## Methodology

Analytical and Organic Chemistry, Natural Products, Proteomics, Biosensors - Biomarkers - Nanotechnology

Chromatography, Chiral, GC, HPLC, MS, GC-MS, LC-MS, API, (ESI)MS, MALDI-TOF, NMR, FTIR, UV-Vis

Forensic Chemistry – Arson Analysis (since 2005)

Environmental, Pharmaceuticals, PPCPs, Pesticides, Ionic Liquids, Xenobiotics, Micropollutants, Emerging compounds Analysis

## Expected Results

New research however started in the area of Chiral compounds, New Organic compounds, Xenobiotics analysis, Protein analysis, Biosensors/Biomarkers development, involving all the expertise developed in the field of chromatography and hyphenated techniques, with emphasis on GC-MS and LC-MS, allowing its application to new areas of research.



## Investigation Concept Evaluation

*Collaborations:*

**REQUIMTE**

**FCT**

**FFUP**

**FCUP**

**FEUP**

**ISEP-IPP**

**ESTSP-IPP**

**ESTS-IPS**

**FMDUP**

**ITQB-UNL**

**ISA-UTL**

**FCTUC**

**CTN-IST-UTL**

**IPMA**

**CIEM**

**ESB-UCP**