

#OrganicChemistry #BioOrganic #Reactivity #Analysis

« Laboratoire de Chimie Organique et Bio organique, Réactivité et Analyse »

www.lab-cobra.fr

RESEARCH laboratory



Rose Menye

















Founded in



COBRA lab is supported by CNRS (French national research center for science, label UMR6014), Normandy University of Rouen and INSA Rouen Normandy. It is integrated into the Normandy doctoral school of chemistry and the Normandy network for research "Biomedical and Chemistry". It plays a central part in the «Institut Carnot» I2C, and is member of the Laboratory of Excellence SynOrg.

Research fields

- Analysis and modeling
- Bio-organic chemistry
- Synthesis of fluorinated biomolecules
- Exploratory methodologies for organic and organometallic synthesis
- Heterocycles

Application areas



Pharmaceutical industry



Cosmetics



Energy



Agri-food



Environment



Know-how and expertise

Analysis and modeling

Molecular and supramolecular mass spectrometry, NMR and molecular modeling, theoretical chemistry.

Organic and organometallic synthesis

Organo (bi) metals in enantioselective synthesis, carbometalation of alkenes and alkynes, organometallic, organocatalytic and natural product synthesis methodologies, continuous organic synthesis and reactivity, organic synthesis under ultra high pressure.

Bioorganic chemistry

Chemistry of organic fluorophores, probe for imaging, medicinal chemistry and reactivators, immunoenzymatic detection of toxins, synthetic methodoloav.

Fluorinated biomolecules synthesis

New methods of synthesis in organofluorinated chemistry, elaboration and synthesis of fluorinated biomolecules.

Heterocycles

Pharmacochemistry of heterocycles, direct functionalization of the C-H bond of heterocycles, organocatalysis.

A wide range of collaborations

COBRA lab has close links with companies, including three common laboratories: Janssen, Total and Holodiag. 4 start-ups have emerged from the scientific success of the laboratory and more than 50 patents have been filed since its creation. COBRA is also the winner of an ERC. The skills of COBRA are widely exported: Germany, England, Italy, Spain, Switzerland, United States, Japan ...

Facilities

Advanced equipment

- 6 NMR: 600 MHz, 500 MHz, 400 MHz and 3 x 300 MHz
- Mass Spectrometry: FT-ICR ultra-high resolution, Q-IM-TOF-MS, MALDI-TOF-MS, LC-MSMS, GCMS ...
- · equipment for continuous flow and microfluidic synthesis
- · high pressure devices ...

Contact





Laboratoire COBRA

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chemistry, research master in chemistry.