

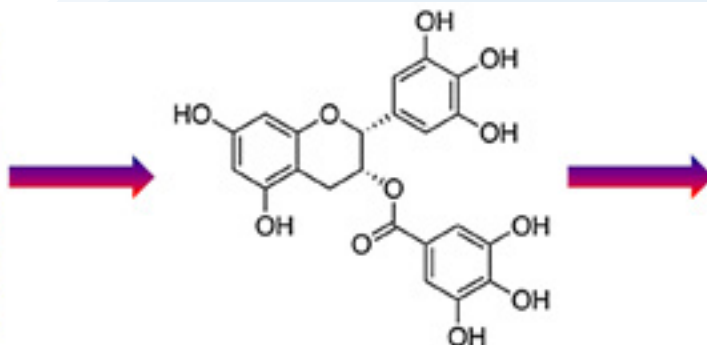
Chimie Balard Carnot Institute is a french research structure committed to partnership research development. It combines scientific excellence with professionalism to develop research for companies' innovation.

The expertise gathered at the Chimie Balard Carnot Institute allows for an integrative, multi-scale approach, ranging from molecules to materials and finally to processes.

It's research activity core lies in the development, characterization and study of functional molecules and materials for energy, sustainable chemistry, environmental protection and health.



Chemistry, Environment and Sustainable Development



Target markets

- Energy, refinement and fuel
- Cosmetics
- Chemical industry
- Automobile industry
- Construction industry
- Pharmaceuticals
- Chemistry and Materials
- Biobased Products

Supported by technological platforms for synthesis, analysis, and characterization, the Chimie Balard Carnot Institute offers a wealth of contextual expertise in synthetic chemistry to develop multi-scale systems, from molecule to material.

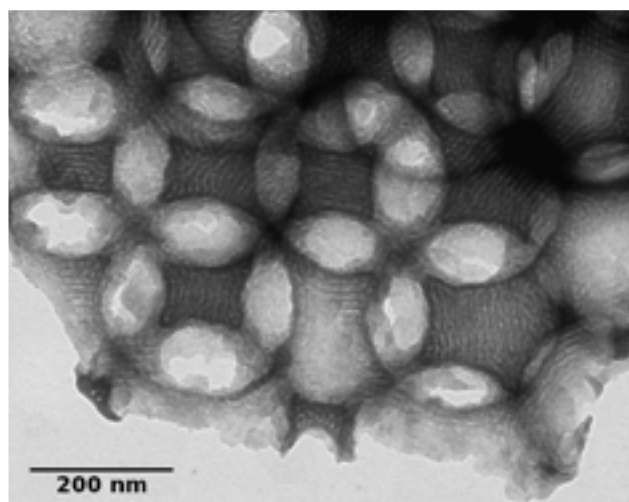
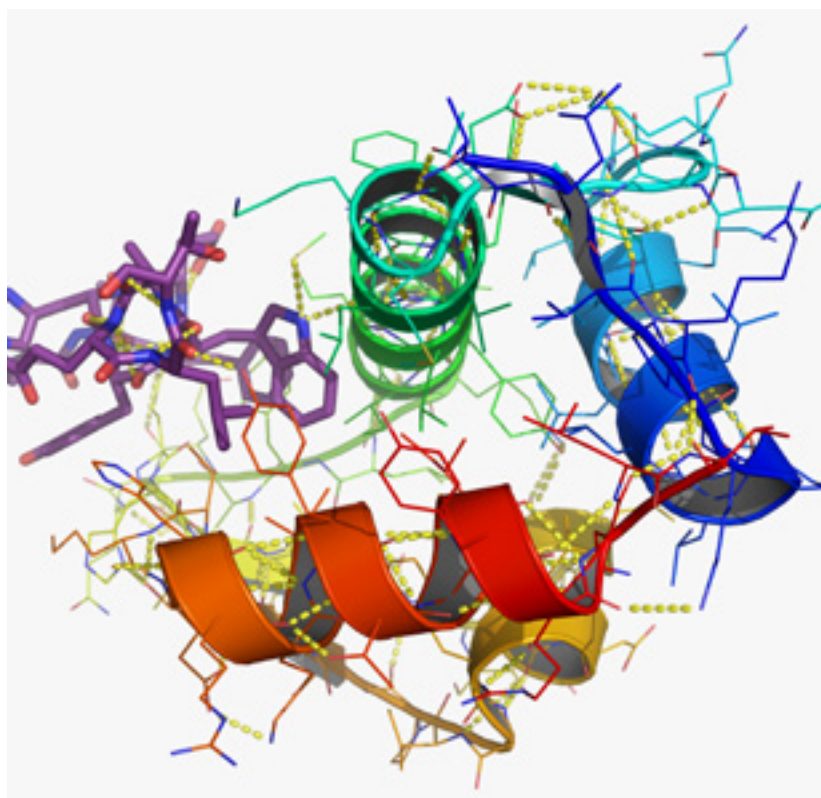
Main programs:

➔ energy through components and assemblies for fuel cells, materials for electrochemical energy storage and conversion, (electro) chemical production of H₂, the preservation of resources and valorisation of non-food biomass, bio and synthetic fuels,

➔ environmental protection through respectful chemistry for sustainable development based on the use of renewable resources, the substitution of hazardous compounds, the development of biodegradable materials, catalysis, process intensification and water treatment,

➔ health through the synthesis of biologically active molecules, vectors, and exploratory probes of living beings; hybrid materials and nanostructured composites for the transport and controlled release of active substances, medical devices.

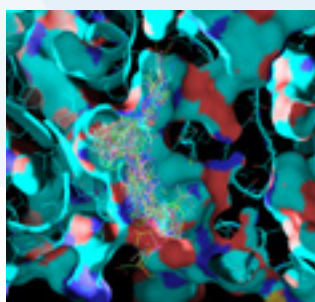
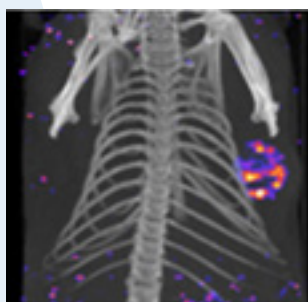
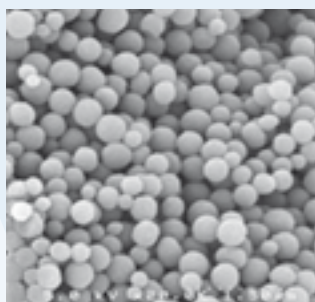




Platform for analysis and characterization of the Pôle Chimie Balard

The aim of this platform is to provide users with advanced equipment and a full set of expertise in the field of chemical science.

It offers technical services for molecular to material characterization (X-ray diffraction and diffusion, spectroscopy, NMR, XPS, microscopies, thermal analysis, Mössbauer, nanoseparation and analyses), as well as for the synthesis of bioactive molecules. The platform is widely open to academic and industrial research communities.



Research personnel
(full-time equivalent): 254
including PhD students: 170

Partnership
research incomes: 4 170 k€
Global budget: 19 550 k€

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Parent Institutions



The Chimie Balard Carnot Institute is composed
of 11 groups from 3 research institutes:



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