



CHEMISTRY AND BIOLOGY OF METALS LABORATORY

UMR 5249

UGA
Université
Grenoble Alpes

cea

cnrs

(Bio)catalysis

Bio-inspired chemistry

Artificial photosynthesis

Protein chemistry protéines

CHEMISTRY

BIOLOGY

KEY FIGURES:

40
permanent researchers
and lecturers

25
technical and
administrative staff

25
PhD students and
postdoctoral researchers

70
publications per year
(on average)

5
patents over the last
5 years

OVERVIEW

The *Chemistry and Biology of Metals Laboratory* (LCBM) conducts research at the interface of chemistry and biology. It focuses on the structure, activity, and regulation of complex biological systems that transport and use metal ions. It also aims to exploit this knowledge to design bio-inspired systems addressing three major societal needs: energy transition, environmental impact reduction, and health.

RESEARCH TOPICS

- Development of innovative catalytic processes for sustainable chemistry and new energy technologies based on synthetic and enzymatic systems.
- Design of innovative methodologies to understand and analyze biological processes from *in vitro* to *in vivo*.
- Development of powerful tools to model and predict chemical phenomena in studied systems.

