

CHEMISTRY AND BIOLOGY OF METALS LABORATORY

CHEMISTRY

BIOLOGY

UMR 5249

UGA
Université
Grenoble Alpes

cea

cnrs

(Bio)catalysis

Bio-inspired chemistry

Artificial photosynthesis

Protein chemistryprotéines

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.

