

UE Bionorganic chemistry



Niveau d'étude
Bac +5



ECTS
6 crédits



Composante
UFR de Chimie
et de biologie



Période de
l'année
Toute l'année

Diplômes intégrant cet élément

- Master Chimie

- > Langue(s) d'enseignement: Anglais
- > Ouvert aux étudiants en échange: Oui
- > Code d'export Apogée: YACB9U32

Présentation

Description

This teaching module focuses on the main principles used in bioinorganic chemistry: i) to understand and mimic the metal binding sites naturally found in biological systems, and ii) to anticipate potential interactions of toxic metals or metal-based drugs in living organisms. A first part will be dedicated to the behavior of metal complexes in biologically-relevant conditions. We will present the main analytical and spectroscopic tools useful to decipher the nature of the metal complexes both in abiotic compounds and proteins. In a second part, important metal active sites (on the catalytic, therapeutic and biological points of view) will be described in details. The last part deals with the concept of bioinspired chemistry. We will see how bioinorganic chemists design complexes that are able to mimic natural systems.

Heures d'enseignement

CM	CM	26h
TD	TD	14h

Période : Semestre 9

Infos pratiques

Lieu(x) ville

> Grenoble

Campus

> Grenoble - Domaine universitaire