

Lecture Bioinorganic Chemistry

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Accessibility is guaranteed during the lecture times.

Lecture period March 31st, 2020 – July 03rd, 2020
Tuesdays 1.15 pm – 04.00 pm

Lecture materials: Power point slides, exercises, old written exams, presentations

My homepage comprises under the link „Download-Portal“ all lecture materials, while a password is not required.

As literature the textbook by Wolfgang Kaim and Brigitte Schwederski, Bioinorganic Chemistry, 2005, 4th edition or later, is recommended

Further information will be published by mailings and/or ILIAS.

First lecture: Tuesday, March 31st, 2020, 01.15 pm, solely on-line.

Contents

- What is bioinorganic chemistry?
- Evolution of elements
- Elements and molecules of life
- Phylogeny
- Metals in biochemistry
- Ligands in biochemistry
- Principals of coordination chemistry
- Properties of bio molecules
- Biochemistry of main group elements
- Biochemistry of transition metals
- Biochemistry of lanthanides and actinides
- Modell complexes
- Analytical methods in bioinorganic
- Applications areas of bioinorganic chemistry

Presentations: Individual talks by the aid of pptx (up to 10 additional points for the exam)

Exam: Oral exam in July and September 2020