

Lecture

Medicinal Inorganic Chemistry

SoSe 2022 (181013, 5 CP)

Mondays, 16–18 h, NC 3/99, start: **11.04.2022**Scope:

This lecture will present and discuss an overview of Medicinal Inorganic Chemistry. Topics of the lecture will be aspects of metal ions and their compounds for health and disease. We will cover aspects like **metal ion uptake, storage, and regulation** in humans and bacteria and how these processes can be exploited for drugs; how **metal ion imbalance leads to diseases** and how these can be cured; and introduce **metal-based therapeutics as anti-cancer and antibiotic agents**.

Format:

The **lecture** will be held on site (subject to change in case of new restrictions). All course material and details will be accessible on Moodle (**Moodle course # 181013**). More in-depth coverage of selected aspects will be through **optional student presentations**. These will be prepared by the participants based on original papers, and bonus points can be earned.

Grading:

A written exam will be held at the end of the course. Bonus points earned from the optional student presentations will also contribute to the overall grading of the course.

Participation:

Master, final year Bachelor and PhD students of Chemistry and Biochemistry are welcome to the course. Students from other disciplines may be admitted as well, but should contact the lecturers at the beginning of the course to clarify details and conditions.

Dr. Wilma Neumann and Prof. Nils Metzler-Nolte

15.03.2022

