



## EINLADUNG

zum Vortrag  
von

**Dr. Cornelia Isabella Angela von Baeckmann**

**Loschmidt-Preisträgerin 2023**

Dissertation: Designed Synthesis of Bioconjugates Based on Hybrid  
Mesoporous Silica Nanoparticles

Betreuer: Univ.-Prof. Dr. Freddy Kleitz, Universität Wien, Institut für  
Anorganische Chemie

### **Loschmidt Price-*Novel Materials and their Applications; My Scientific Journey***

**am Dienstag, 30. Jänner 2024, um 17:30 Uhr**

**Ort:** Lise-Meitner-Hörsaal, Fakultät für Physik, Universität Wien,  
1090 Wien, Strudlhofgasse 4 / Boltzmannngasse 5, 1. Stock

*Barrierefreier Zugang: Boltzmannngasse 5, Lift, 1. Stock rechts über den Gang zum  
Hintereingang des Hörsaals*

**Abstract:**

This lecture will summarize the scientific journey of the Loschmidt price winner; Dr. Cornelia von Baeckmann. Special focus will be on her PhD thesis, which implements the designed synthesis of bioconjugates based on mesoporous silica nanoparticles. Mesoporous silica nanoparticles upon other novel materials have recently drawn much attention as very promising nanocarriers. The lecture covers the synthesis and characterization of a variety of bioconjugates, multi-functionalized hybrid silica nanoparticles and other novel materials (such as metal-organic polyhedra and metal organic frameworks) in relation to their potential biomedical applications, as well as to the fundamentals of adsorption, transport, stability and reactivity in their pores.

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