



- atom - molecule - structure - function - interaction - receptor - binding - ligand - drug design - target - inhibitor - modelling - disease -

Structural Biology Meets Clinic: Molecular Aspects of COVID-19

- Online Meeting & Discussion

Date: Wednesday 2 Dec 2020, 16:30-19:00 CET

WISSENSCHAFTLICHE GESELLSCHAFT
DER ÄRZTINNIEN UND ÄRZTE IN DER STEIERMARK

MU
Med Uni
Graz

ISB Integrative
Structural Biology
and Biophysics
BioTechMed

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The three-dimensional arrangement of atoms (structure) in molecules and biological assemblies, such as proteins, nucleic acids, macro-molecular complexes or other large assemblies is crucial for their function, dynamics and interaction. We can exploit the knowledge about this “structure – function relationship” to our advantage and learn more about cellular processes on the molecular level, e.g. mechanisms of binding, metabolic pathways or possible causes of malfunction, disease and aging. In addition, structural information has become indispensable in the clinical context when dealing with effects of medication, side effects, resistance or in our search for new types of drugs.

This meeting brings together structural biology and clinical research dealing with molecular aspects of SARS-CoV-2 and structural biology based methods used in drug discovery as well as clinical aspects of COVID-19. There will be extra time for an open, interdisciplinary discussion between speakers, scientists from different research fields, clinicians, students and the broad audience. The event is open to everyone.

Registration: <https://biotechmedgraz.at/de/structbiologymeetsclinic>

Programme:

Welcome: *P. Schemmer, President Scientific Soc. of Med. Doctors in Styria, Med Uni Graz & T. Madl, Integrative Structural Biology and Biophysics Initiative, Med Uni Graz*

Keynote lecture: Molecular Aspects of SARS-CoV-2

Sriram Subramaniam, *Gobind Khorana Canada Excellence Research Chair in Precision Cancer Drug Design, University of British Columbia, CA.*

Short talks

- **The spike protein in high resolution.** M. Beck, M. Sikora, *MPI Frankfurt, Germany*
- **Synthetic nanobodies that neutralise SARS-CoV-2.** C. Löw, *EMBL Hamburg, Germany*
- **Computational Modelling of Spike-Ace2 interactions.** C. Oostenbrink, *BOKU Vienna*
- **Drug discovery using structural bioinformatics.** C. Gruber, K. Gruber, *Innophore & Uni Graz*
- **Endothelial dysfunction in COVID Pneumonia.** H. Olschewski, *Med Uni Graz*
- **Gastroenterology and COVID-19.** V. Stadlbauer-Köllner, *Med Uni Graz*

Open Discussion

Chairs: T. Madl, & P. Schemmer, *Med Uni Graz*

Register now >

<https://biotechmedgraz.at/de/structbiologymeetsclinic>



Organisation:

Science-Technology Interface:
Structural Biology, Med Uni Graz

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