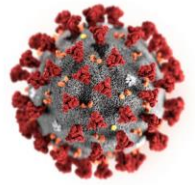


SARS-CoV2 related teaching SS 2022



Guestprofessor at BOKU

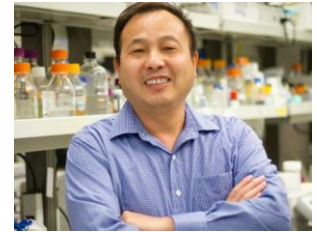
Host: Herta Steinkellner



Universität für Bodenkultur Wien
Department für Angewandte Genetik
und Zellbiologie

Qiang Chen

Professor, Biodesign Center for
Immunotherapy, Vaccines and Virotherapy
Qiang.Chen.4@asu.edu



Understanding the science behind vaccines

(VO, 940001, 3 ECTS, blocked 16th -27th May)

Content:

- Viral infection mechanism and immunological response
- Induction of specific immune response (epitope profiling)
- Biotechnology innovations in vaccine development (nucleic acid-, protein and vector based)
- How to approach temperature stability, needle-free delivery, and simplicity of manufacture
- The long and winding road to approval

Learning outcomes:

Students enrolled in this course should

- gain a comprehensive understanding of the science (e.g. virology, immunology, vaccinology) behind various vaccines.
- be able to critically evaluate current vaccines and vaccine platforms.
- be able to propose innovative ideas of new vaccine candidates.