



Discovery platform for antiviral agents to SARS-CoV-2 and other high risk pathogens in a BSL-3+ laboratory

In collaboration with the Medical University Graz and the computational biology company Innophore, acib is offering a powerful drug discovery and repurposing platform. The platform consists of an advanced computational modeling technology and of a high-end BSL-3+ laboratory for *in-vitro* drug testing and access to patient material including virus isolates.

BACKGROUND

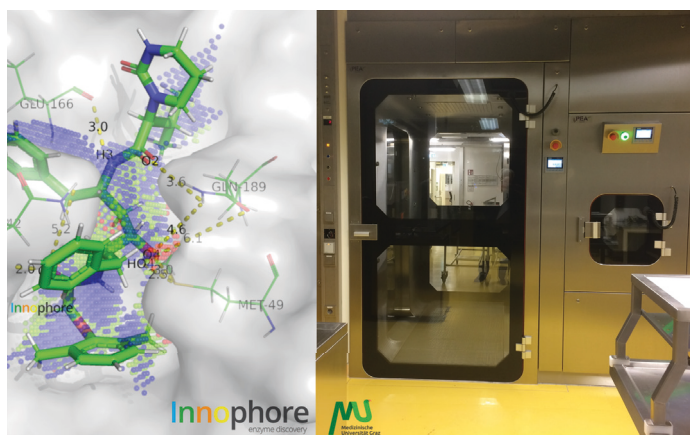
The current Covid-19 situation demonstrates the need for rapid access to new drugs. By combining advanced computational modeling and a series of *in-vitro* assays established in a high-end BSL-3+ laboratory, available drugs and chemical compounds can be rapidly tested for antiviral activity including high-risk pathogens. The use of different *in-vitro* models along with human organoids reduces the need for animal models and provides a solid pre-clinical data base for drug repurposing and rapid clinical application.

TECHNOLOGY

We can perform three phase *in-vitro* testing of antiviral drugs including evaluation of toxicity, evaluation of antiviral activity in different cell lines and antiviral activity in human organoids. The read-out is based on cytopathic effects, qPCR and plaque assays. In the high-end BSL-3+ laboratory we can establish and characterize viral cultures from patient samples and test the relevance of different sub-strains.

OFFER

We are offering pre-clinical R&D services and co-development of drugs against various types of high risk pathogens including SARS-CoV-2.



EXPERTS

Prof. Dr. Kurt Zatloukal
Dr. Christian Gruber

AVAILABLE FOR

- Joint Research Project
- Contract Research
- COMET Funding call

DEVELOPMENT STATUS

Ready for external services

KEYWORDS

- Biological Safety Lab
- Structural biology
- Computational modeling
- *In-vitro* drug testing
- High-risk pathogens
- SARS-CoV-2
- Covid-19
- Patient samples
- Diagnostics

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