

PAID DIPLOMA / MASTER'S THESIS

CO-PROCESSED SYSTEMS FOR INHALATION – BIOLOGICAL EFFECTS IN THE LUNG

Ref. No. DA190

To dedicated students of Pharmaceutical Engineering, Biochemistry, Biotechnology, Microbiology or related disciplines.

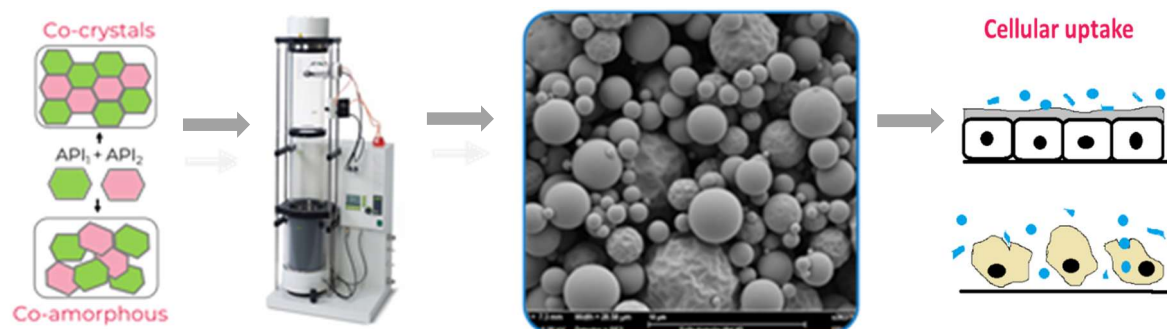
Objective

This project will evaluate the biological effects of new co-processed particles for inhalation (co-amorphous and cocrystalline drug-drug combinations) in the lung. These new formulations will be compared with pure crystalline drug substances to demonstrate the advantages of co-processed systems.

Tests will be performed at the Medical University and will include the following:

- Cytotoxicity of the formulations
- Permeability
- Uptake by common alveolar or bronchiolar lung cell lines

Another part of this work will involve testing the in vitro aerosolization performance of the new co-processed particles using impactors or dissolution setups.



Within the framework of this diploma / master's thesis we offer the following

- Extensive participation in a top-level and industrially relevant research project in an international environment
- Supervised training in the task
- Assistance of experienced staff with the implementation of innovative ideas
- Access to highly modern infrastructure on campus of Graz University of Technology
- Assistance with the publication of results

Financing

- Compensation on the basis of a service contract

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