

PAID DIPLOMA / MASTER'S THESIS

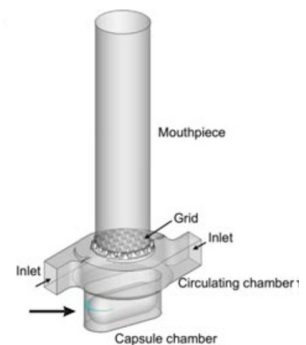
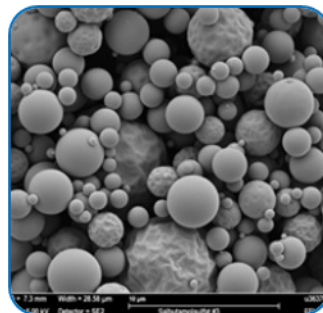
Co-Processing of APIs for Inhalation

Ref.Nr. DA135

To dedicated students of Pharmacy, Chemistry, Physics or related disciplines, we offer an opportunity to write a paid Master's thesis. The project is conducted in close cooperation with Graz University of Technology.

OBJECTIVE:

Development of novel engineered co-processed API (active pharmaceutical ingredient) particles for the treatment of lung disease. A detailed preformulation screening will guide the selection for suitable API combinations. Co-processing systems to be studied are co-crystals or co-amorphous systems. Methods involved in the screening will be thermal methods like hot stage microscopy (HSM) and vacuum compression molding coupled with differential scanning calorimetry (DSC). Promising drug combinations will be selected for lab scale batch production trials, involving spray drying and/or spray congealing. The prepared batches will be fully characterized with respect to solid-state, powder technology and physico-chemical behaviour.



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 by experienced staff during implementation of innovative ideas
- Access to highly modern infrastructure on campus of Graz University of Technology
- Assistance with the publication of results
- Adequate compensation and opportunities for personal and professional development

FINANCING: Compensation on the basis of a service contract

If you are interested in writing your thesis at the interface between university research and industry/business and to contribute to the optimization of product and process development in the pharmaceutical industry, please contact us, indicating the reference number.

Research Center Pharmaceutical Engineering GmbH

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