

PAID DIPLOMA/ MASTER'S THESIS

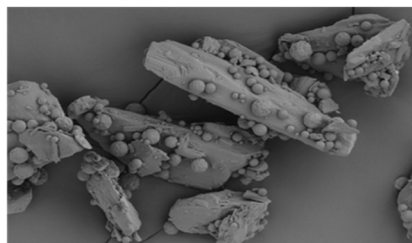
Surface Engineering of Salbutamol Sulphate Particles – Breathing new Life into an old API

Ref.Nr. DA93

To dedicated students with a technical or natural scientific bachelor degree in pharmaceutical engineering, chemical engineering, material science or related disciplines, we offer an opportunity to write a paid Diploma/Master's thesis. The project is conducted in close cooperation with an industrial group specialized in the R&D, production and commercialization of innovative inhalation products.

OBJECTIVE:

Many of the new pharmaceutical molecules developed in the last few years don't have the necessary physicochemical characteristics to be delivered orally. As such, the lung has been recognized as an attractive alternative delivery route by many formulation developers. However efficient and effective inhalation dosage forms capable of meeting patient needs are still lacking. Particle surface engineering emerges as a potential route to improve the performance of existing dry powder inhaler



(DPI) products, meeting today's markets demands.

The work will include the following tasks:

- API engineering via spray-drying
- Physicochemical characterization of the API
- Evaluation of the in vitro performance of the developed formulations strategies

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
- 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

Sandra Resl

Inffeldgasse 13, A-8010 Graz

Tel.: +43 316 873-30904

sandra.resl@rcpe.at

