

PAID DIPLOMA/ MASTER'S THESIS

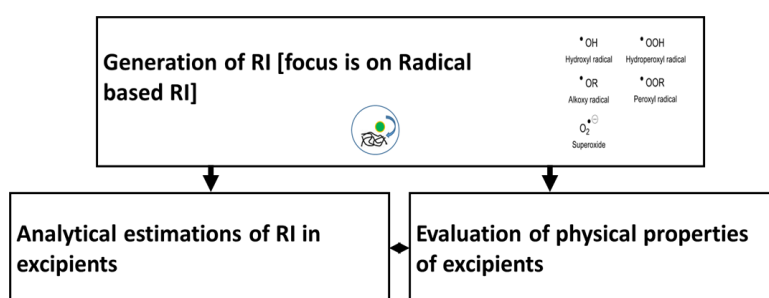
Development of Systematic Approaches to Measure Excipient Impurities and to Estimate Their Impact on Chemical Stability

Ref.Nr. DA134

To dedicated students of Physical organic chemistry, pharmaceutical engineering, Pharmacy or related disciplines, we offer an opportunity to write a paid Diploma/Master's thesis. The project is conducted in close cooperation with pharmaceutical industry.

OBJECTIVE:

The aim of Diploma/Master thesis is creation, measurement and characterization of reactive excipient impurities (RIs) including peroxide and free radicals (reactive oxygen species). Different approaches such as milling of the excipients, oxygen purging, UV radiation, spiking etc., will be employed. Quantitative estimations of the RIs will be performed using ESR and NMR spectroscopy. In next step, Material (formulation) properties and their impact on RIs will be targeted.



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.

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