Master or Diploma Thesis in Pharmaceutical Technology

Topic:

Preparation of Lipid Nanoparticles (LNPs) by Dual Centrifugation for mRNA Delivery

Following the successful initial use of LNPs as carriers for covid mRNA vaccines, there is a great need for research regarding new LNP systems, e.g. for cancer immunotherapy. In our research group we are working on the improved production of those novel lipid carriers using an innovative new production method (dual centrifugation).

At the Department of Pharmaceutical Technology Institute of Pharmaceutical Sciences University of Freiburg Group of Prof. Dr. Heiko Heerklotz and Prof. Dr. Ulrich Massing

Requirements:

- Enrolled in a Master of Science or state examination program, preferably in Pharmaceutical Sciences, Pharmacy, Chemistry, Biophysics, or similar
- Timeframe of 6 months
- High interest to learn new ideas and techniques and being part of an innovative team.

Scientific methods:

- Dual centrifugation
- Dynamic light scattering
- Time-resolved fluorescence
- Differential scanning calorimetry

Interested? Get in touch!

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