

3D Microfluidic Systems for Encapsulating and Flow Filtration of LNP-Loaded mRNA

We are seeking motivated students to join our research team focused on the integration of 3D microfluidic systems for encapsulation and filtration of LNP-loaded mRNA. This project represents a significant advance in drug delivery technology, enabling high-throughput production, precise control of nanoparticle characteristics, and efficient separation processes. These innovative platforms are crucial for enhancing the development and application of mRNA-based therapeutics, addressing the growing demand for effective drug delivery solutions.

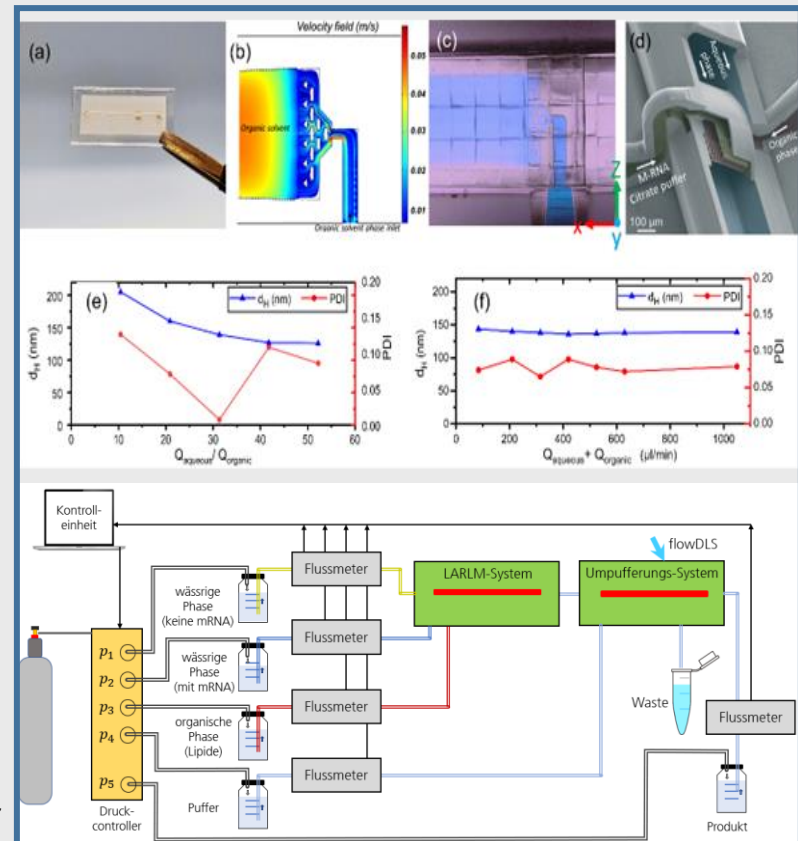
Thesis Opportunity:

This thesis will involve the fabrication of 3D microfluidic channels using Two-Photon Polymerization (2PP) technology. Students will gain hands-on experience in cutting-edge techniques that are at the forefront of biomedical engineering and drug delivery research.

Qualifications:

- Background in Biomedical Engineering, Chemical Engineering, Materials Science, or a related field.
- Familiarity with microfluidics and polymer fabrication techniques is a plus.
- English communication.

If you are interested in contributing to this exciting field and advancing your academic career, please reach out to discuss this opportunity further!



Start: By arrangement **Contact:** Ebrahim Taedinejad **Phone:** 0531 391-65675

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