

Bacterial phase-separating protein encapsulation in cell mimics:

In this project, our aim is to develop a method for the study of phase-separating proteins that stands between a dilute *in vitro* approach and a cellular *in vivo* approach, using the bacterial phase-separating protein NusA as a proof of concept. Over the past year, we have purified NusA, prepared fusion proteins, and characterized their *in vitro* phase-behavior. Currently, we are looking for a motivated master student with a background in biology to work on the next stage of this project. Using glass-based microfluidics, you will encapsulate NusA together with a bacterial cell lysate inside liposomes and shrink these liposomes to imitate the naturally crowded bacterial cytoplasm. This a challenging next step and we are looking for a master student who is driven to broaden their skill set and theoretical horizon. If you would like to know more about the project, feel free to contact me at

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PhD candidate

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