

Open PhD position

“Origin and progression of fibrotic diseases due to mechanical interactions between cells and extracellular matrix”

Prof. Dr. Ben Fabry

Fibrotic diseases of the liver, lung, or heart are widespread, severe, and currently hard to treat. We offer you the unique opportunity to explore the treatment of fibrotic diseases within your doctoral thesis. The focus of the research project is on the dynamic interactions between fibroblasts and the extracellular matrix (ECM), which are crucial for the occurrence and progression of fibrotic diseases. These interactions are highly complex: cellular forces can stiffen the ECM, which in turn affects cell function and contributes to the progression of fibrotic diseases. By unlocking these interactions, you can make a significant contribution to understanding disease mechanisms and also discover therapeutic approaches to revolutionize the treatment of fibrotic diseases.

If you have a master degree in biology, (bio-)physics, medical engineering, biotechnology, molecular medicine or similar and enjoy research, apply to *Prof. Dr. Ben Fabry* (via **IMPRS-PL** or **IMPRS-PM**).