

Project title: Biomechanical properties of the extracellular matrix driving the shaping of tissues

Project description: This interdisciplinary project will analyse the biomechanical properties of the basement membrane, a specialized extracellular matrix, and their contribution to the folding of epithelial tissues. State-of-the-art methods, including live imaging, quantitative image analysis, laser nanosurgery, atomic force microscopy and optogenetics, will be applied using the fruit fly *Drosophila* as a model system.

Supervision: This PhD student will be supervised by Christian Dahmann and Elisabeth Fischer-Friedrich.