

PhD position (E13/65%) – Structural Biology with Super-resolution microscopy

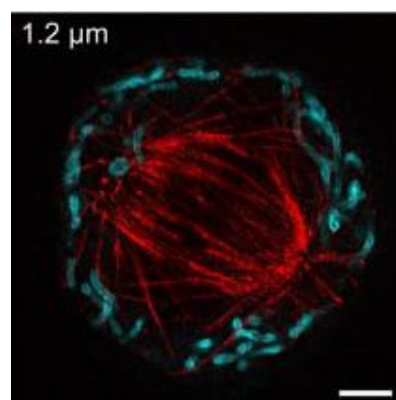
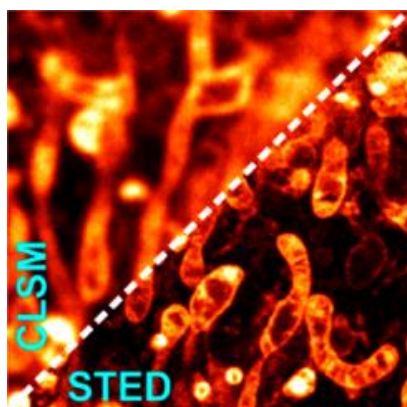
We offer a PhD position **to develop advanced microscopy and image analysis tools and apply these to study cell biology at the molecular level**. The project aims to derive quantitative information on how proteins form functional clusters and how cell organelles reshape in response to different stimuli.

Our interdisciplinary research group of chemists, biologists and physicists is located in the Chemistry Department (FB14), Institute for Physical and Theoretical Chemistry, at the Johann Wolfgang Goethe University in Frankfurt am Main. We work at the interface between biology and physics further developing single-molecule and super-resolution techniques and applying these to different biological questions (further information at www.smb.uni-frankfurt.de and share.smb.uni-frankfurt.de).

We seek for candidates with a background in biophysics, physics, (bio)chemistry, or related disciplines, who are interested to dive in the **exciting research field of modern microscopy and image analysis**.

Please send your application by email to

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References

Protein-specific, multi-color and 3D STED imaging in cells with DNA-labeled antibodies.

Spahn C, Hurter F, Glaesmann M, Karathanasis C, Lampe M, Heilemann M.

Angew Chem Int Ed Engl. 2019 Oct 11. doi: 10.1002/anie.201910115.

Whole-Cell, 3D, and Multicolor STED Imaging with Exchangeable Fluorophores.

Spahn C, Grimm JB, Lavis LD, Lampe M, Heilemann M.

Nano Lett. 2019 Jan 9;19(1):500-505. doi: 10.1021/acs.nanolett.8b04385. Epub 2018 Dec 14.