University of Stuttgart

Stuttgart Research Center Systems Biology (SRCSB)

Systems Biology Seminar Talk

„Focusing on mitochondria with super-resolution microscopy “

Prof. ´Dr. Stefan Jakobs

University Medical Center of Göttingen

Thursday
January 23, 2020
4 p.m. – 5 p.m.

Lecture Hall 0.106
Allmandring 31
Stuttgart

Abstract:

Mitochondria, the ‘powerhouses of the cell’, are double membrane organelles that are essential for eukaryotic life. Because of their inner-cellular mobility, their small size and their complex architecture, they are notoriously challenging objects for high-resolution light microscopy. We employ STED super-resolution microscopy and other microscopies to investigate the inner mitochondrial architecture. We aim at understanding how mitochondria develop and maintain their complex inner architecture. This talk will summarize our recent progress in investigating inner-mitochondrial protein distributions and cristae dynamics.

CV:

Stefan Jakobs studied biology in Kaiserslautern and Manchester and obtained his PhD in 1999 in Cologne. He recorded his first super-resolution image using STED nanoscopy already in the year 2000. He now heads a research group at the MPI for Biophysical Chemistry and is Professor of High Resolution Microscopy at the University Medical Center of Göttingen.

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