





Inaugural lecture
by
Jun.-Prof. Dr. Chengzhe Tian



05.02.2024 14:00 CET

Lecture Hall 0.106
Allmandring 31
Stuttgart

Systems Biology
Seminar Talk

Abstract:

Non-genetic cell-to-cell heterogeneity is ubiquitous and plays a critical role in human diseases. Time-lapse microscopy coupled with fluorescent live-cell reporters enables direct monitoring of pathway activities in single cells over time. It thus serves as an ideal tool to dissect the molecular origins of cell-to-cell heterogeneity and their implications for long-term cell fates, especially in the disease settings. I have worked in this area during the past decade, making contributions in both the experimental and the computational aspects. In my inaugural lecture, I will discuss two of my published studies on mammalian immune signaling and melanoma skin cancer. I will also briefly describe my future research directions during my Junior Professorship.

CV:	

since 2023	Junior-Professor, Institute for Cell Biology and
	Immunology, University Stuttgart, Germany
2022 – 2023	Project Scientist, CeMM Research Center for
	Molecular Medicine of the Austrian Academy
	of Science
2017 - 2022	Postdoc, University of Colorado Boulder, USA
2014 - 2017	Ph.D. Biophysics, University of Copenhagen,
	Denmark
2011 - 2013	M.Sc. Computational Biology and
	Bioinformatics, ETH Zurich and University of
	Zurich, Switzerland
2007 - 2001	B.Sc. Chemistry and B.Sc. Computer
	Software, Peking University, China