

## Faculty members and projects

Project leader ,PI (Affiliation)	Project no. and title	Education/Expertise/Methods
Michael Sixt (IST)	DK1: Probing receptor recycling in migrating leukocytes using photoactivation and single molecule imaging techniques.	<i>Medical Doctor</i> Cell Biology / Immunology Biology of Single Cell Motility Live Cell Imaging
Gerhard Schütz (JKU)	DK2: Nanostructural Characterization of the Dendritic Cell Plasma membrane	<i>Biophysicist</i> Superresolution Microscopy Single Molecule Fluorescence Microscopy
Thomas A. Klar (JKU)	DK3: Optical Nanoscopy	<i>Experimental Physicist</i> Nanophotonics STED Microscopy STED Lithography
Carl-Philipp Heisenberg (IST)	DK4: Cell sorting in Development	<i>Developmental Biologist</i> Embryo Morphogenesis in Development Atomic Force Microscopy Micropipette Aspiration, Laser Cutting
Peter Pohl (JKU)	DK5: The Mechanism of protein translocation through the bacterial translocon	<i>Biophysicist</i> Membrane Transport Scanning Electrochemical Microscopy, Electrophysiology, Fluorescence
Peter Hinterdorfer (JKU)	DK6: Forces and Dynamics in protein translocation through the bacterial translocon	<i>Biophysicist</i> Single Molecule Interactions Molecular Recognition Scanning Probe Microscopy
Günther Knör (JKU)	DK7: Photochemical Control and Nanoscopic imaging of Protein Translocation	<i>Bio-Inorganic Chemist</i> Coordination Chemistry Photochemistry Synthesis, Spectroscopy, Photolysis
Thomas Renger (JKU)	DK8: Modelling of conformational transitions of fluorescent labelled proteins	<i>Theoretical Biophysicist</i> Structure-function Relationships of Biomolecules Theory and Modeling
Johannes Kraus (RICAM)	DK9: Electrostatic computations of FRET rate constants in fluorescent labeled proteins	<i>Mathematician</i> Numerical Methods for Partial Differential Equations Subspace Correction Methods

Christoph Romanin (JKU)	DK10: STIM/Orai coupling and CRAC activation	<i>Biophysicist</i> Ca <sup>2+</sup> Signaling Patch-Clamp FRET Microscopy
Hermann J. Gruber (JKU)	DK11: Forces and dimensions of STIM-ORAI interaction	<i>Chemist</i> Bioconjugate Chemistry Biological Interaction Analysis Surface Plasmon Resonance
Norbert Müller (JKU)	DK12: Investigation of the STIM/ORAI PPI using Paramagnetic NMR	<i>Bio-Organic Chemist</i> NMR Intermolecular Interactions Expression