



Frontiers in Life Science Technologies at KTH

Imaging, Spectroscopy, Modelling and Simulations – from molecule to man

Location: Oskar Klein Auditorium, Albanova Univ Center, KTH, Stockholm

12:00-12:05	Welcome	
12:05-12:40	Stefan W Hell, MPIBPC Far-Field Optical Nanoscopy: principles and recent advancements	
12:40-12:55	Hjalmar Brismar, KTH/SCI	Nanoscopy at KTH - SciLifeLab
12:55-13:10	Hans Hebert, KTH/STH	High resolution electron microscopy in structural biotechnology
13:10-13:25	Hans Hertz, KTH/SCI	Nano- and microimaging with liquid-jet x-ray sources
13:25-13:40	Hans Bornefalk, KTH/SCI	Photon counting spectral CT development at KTH
13:40-13:55	Johan Hoffman, KTH/CSC	Model based imaging and simulation
13:55-14:25	<i>Coffee Break</i>	
14:25-15:00	Kurt Wüthrich, ETH Conformational polymorphisms and rate processes in the protein universe studied by NMR in solution	
15:00-15:15	István Furo, KTH/CHE	Electrokinetic NMR – method, potential, applications
15:15-15:30	Hans Ågren, KTH/BIO	Muti-scale modelling of biological spectroscopy
15:30-15:45	Jeanette Hellgren-Kotaleski, KTH/CSC	Multi-scale modeling and simulations of the brain
15:45-16:00	Jan Linnros, KTH/ICT	Biomolecule detection using silicon nanowires
16:00-16:15	Amelie Eriksson-Karlström, KTH/BIO	Molecular imaging of HER2-positive tumors using radiolabeled Affibody molecules
16:15-16:45	<i>Coffee Break</i>	
<u>Oskar Klein Auditorium:</u>		<u>The Svedberg lecture hall:</u>
16:45-17:20	Lior Pachter, Berkely Univ Sequencing based functional genomics	16:45-17:20 Nico De Jong, Erasmus Univ Molecular Imaging with ultrasound
17:20-17:35	Erik Aurell, KTH/CSC Learning spatial amino acid contacts from many homologous protein sequences	17:20-17:35 Matilda Larsson, KTH/STH Improved risk stratification in cardiovascular diseases using ultrasound
17:35-17:40	Concluding remarks	17:35-17:40 Concluding remarks
17:45-20:00	Poster session, mingle and buffet dinner	