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 and 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	Mats Danielsson, KTH/SCI
	X-ray mammography development at KTH
13:40-13:55	Johan Hoffman, KTH/CSC
	Model based imaging and simulation
13:55-14:15	Break
14:15-14:50	**Kurt Wüthrich, ETH**
	NMR spectroscopy for biomolecular studies
14:50-15:05	István Furo, KTH/CHE
	Electrokinetic NMR – method, potential, applications
15:05-15:20	Hans Ågren, KTH/BIO
	Muti-scale modelling of biological spectroscopy
15:20-15:35	Jeanette Hellgren-Kotaleski, KTH/CSC
	Multi-scale modeling and simulations of the brain
15:35-15:50	Jan Linnros, KTH/ICT
	Biomolecule detection using silicon nanowires
15:50-16:05	Amelie Eriksson-Karlström, KTH/BIO
	Molecular imaging of HER2-positive tumors using radiolabeled Affibody molecules
16:05-16:25	Break
16:25-16:55	**Lior Pachter, Berkely Univ**
	Computational biology in genomics
16:55-17:10	Erik Aurell, KTH/CSC
	Proximity and contact predictions in proteins
17:10-17:40	**Nico De Jong, Erasmus Univ**
	Ultrasound contrast imaging
17:40-17:55	Matilda Larsson, KTH/STH
	Improved risk stratification in cardiovascular diseases using ultrasound
17:55-18:00	Concluding remarks
18:00-20:00	**Poster session, mingle and buffet dinner**