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**TUESDAY, 18 MAY 2010**

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16:00 - 18:00	Arrival and Registration	
18:00 - 19:00	<b>KEYNOTE LECTURE</b>	1
	Breakthroughs in imaging using photoactivatable fluorescent proteins	
	Jennifer Lippincott-Schwartz	
	<i>National Institute of Health, United States of America</i>	
19:30	DINNER	
	ATC Casino	
	Rooftop Lounge open after dinner until 23.00	

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**WEDNESDAY, 20 MAY 2010**

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08:45 - 10:45	SESSION 1: High Resolution Microscopy Chair: Jan Ellenberg	
08:45 - 09:15	Nanoscopy with focused light	2
	STEFAN HELL	
	<i>MPI for Biophysical Chemistry, Germany</i>	
09:15 - 09:45	OMX, a new microscope platform for increased time and spatial resolution	3
	JOHN SEDAT	
	<i>University of California, San Francisco, United States of America</i>	

09:45 - 10:00	Dual color super-resolution imaging on a spinning disk confocal microscope	4
	JAN PEYCHL <i>MPI-CBG, Dresden, Germany</i>	
10:00 - 10:15	SPT-PALM: A super-resolution imaging method to monitor the living cell activity at high temporal frame rate. Application to the analysis of post-synap	5
	JEAN-BAPTISTE SIBARITA <i>UMR5091 CNRS-University Bordeaux 2, France</i>	
10:15 - 10:45	Mapping neuronal connectivity using stochastic optical reconstruction microscopy (STORM): The brainstorm project	6
	MELIKE LAKADAMYALI <i>Harvard University, United States of America</i>	
10:45 - 11:15	COFFEE BREAK	
11:15 - 13:15	SESSION 2: Image Analysis and High Throughput Microscopy Chair: Rainer Pepperkok	
11:15 - 11:45	Cellular heterogeneity in models of cancer and metabolism: Which differences make a difference?	7
	STEVEN ALTSCHULER <i>UT Southeastern Medical Center, United States of America</i>	
11:45 - 12:15	Systems survey of endocytosis by functional genomics and quantitative multi-parametric image analysis	8
	CLAUDIO COLLINET <i>MPI for Molecular Cell Biology and Genetics, Germany</i>	

## Meeting Programme

12:15 - 12:30	Confocal microscopy based high content analysis of protein localizations in the EGF signal transduction pathway	9
	TIMO ZIMMERMANN <i>Centre for Genomic Regulation, Spain</i>	
12:30 - 12:45	A detection based framework for systematic analysis of TIRF microscopy data	10
	JEAN SALAMERO <i>CNRS-Institut Curie, France</i>	
12:45 - 13:15	Automating fluorescence microscopy for systems biology: From genome-wide profiling to the analysis of protein complexes	11
	JAN ELLENBERG <i>EMBL Heidelberg, Germany</i>	
13:15 - 14:30	LUNCH	
14:30 - 17:30	WORKSHOPS	143
18:00 - 18:45	Eurobioimaging: Status Quo ATC Auditorium	
19:00 - 20:00	DINNER / 18:45 - 20:00 Steering Committee Meeting ATC Casino Helix Room A23	
20:00 - 23:00	POSTER SESSION ATC Helices Rooftop Lounge open after dinner until 23.00	

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## THURSDAY, 20 MAY 2010

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08:45 - 10:45	SESSION 3: Development of Fluorescent Probes Chair: Timo Zimmermann	
08:45 - 09:15	Fluorescent proteins as intracellular probes and photochemical partners  KONSTANTIN LUKYANOV <i>Institute of Bioorganic Chemistry, Russian Federation</i>	12
09:15 - 09:45	Reversibly photoswitchable fluorescent proteins  STEFAN JAKOBS <i>MPI for Biophysical Chemistry, Germany</i>	13
09:45 - 10:00	Super-resolution dynamic imaging of dendritic spines using a low-affinity photoconvertible actin probe  IGNACIO IZEDDIN <i>Ecole Normale Supérieure, France</i>	14
10:00 - 10:45	Zooming in on signal transduction by FRET  KEES JALINK <i>The Netherlands Cancer Institute, Netherlands</i>	15
10:45 - 11:15	COFFEE BREAK	
11:15 - 13:15	SESSION 4: Correlative Light Electron Microscopy Chair: Jens Rietdorf	
11:15 - 11:45	Imaging the endo-lysosomal system by correlative live cell - electron microscopy  JUDITH KLUMPERMAN <i>University Medical Center Utrecht, Netherlands</i>	16

## Meeting Programme

11:45 - 12:15	Correlative light and electron microscopy (CLEM) of spindle organization in <i>C. elegans</i>	17
	THOMAS MÜLLER-REICHERT <i>Max Planck Institute of Molecular, Germany</i>	
12:15 - 12:45	Analysis of membrane trafficking by correlative microscopy	18
	ALBERTO LUINI <i>Tigem, Italy</i>	
12:45 - 13:00	A computational imaging approach to systematically study the global organization of endomembranes with probabilistic density maps	19
	KRISTINE SCHAUER <i>Institut Curie, France</i>	
13:00 - 13:15	Single-molecule and super-resolution analysis of intramembrane orthogonal array assembly by aquaporin-4 water channels	20
	ALAN S. VERKMAN <i>University of California, San Francisco, United States of America</i>	
13:15 - 14:30	LUNCH	
14:30 - 17:30	WORKSHOPS	143
18:00 - 00:00	SOCIAL EVENT Heidelberg Castle	199

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## FRIDAY, 21 MAY 2010

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08:45 - 10:45	SESSION 5: Advanced Light Microscopy Applications Chair: Jean Salamero	
08:45 - 09:15	Light sheet based fluorescence microscopes (LSFM, SPIM, DSLM)  ERNST H STELZER <i>EMBL Heidelberg, Germany</i>	21
09:15 - 09:45	Real-time dynamics of pre-mRNA splicing  MARIA CARMO-FONSECA <i>Instituto de Medicina Molecular, Portugal</i>	22
09:45 - 10:00	An miRNA-based mechanism for the commitment of multipotent progenitors to a single cell fate  MATI MANN <i>Weizmann Institute of science, Israel</i>	23
10:00 - 10:15	Imaging motile parasites during transmission of malaria  FREDDY FRISCHKNECHT <i>University of Heidelberg Medical School, Germany</i>	24
10:15 - 10:45	Real-time microscopy and high-content imaging as essential tools to dissect dynamics of the DNA damage response  CLAUDIA LUKAS <i>Danish Cancer Society, Denmark</i>	25
10:45 - 11:15	COFFEE BREAK	

11:15 - 13:30	SESSION 6: Advanced Light Microscopy Applications II Chair: Stefan Terjung	
11:15 - 11:45	Fluorescence correlation spectroscopy: New perspectives for in situ biochemistry	26
	PETRA SCHWILLE <i>TU Dresden, Germany</i>	
11:45 - 12:00	Spatially resolved fluorescence correlation spectroscopy in living cells	27
	MALTE WACHSMUTH <i>EMBL Heidelberg, Germany</i>	
12:00 - 12:15	Quantifying photo-toxicity impact of various illumination modalities using <i>C.elegans</i> embryo	28
	JEAN-YVES TINEVEZ <i>Institut Pasteur, France</i>	
12:15 - 12:30	Bioluminescence Microscopy: A new tool to study circadian gene expression in single cells over extended periods of time	29
	CHRISTOPH BAUER <i>University of Geneva, Switzerland</i>	
12:30 - 13:30	Concluding Remarks	