

Monday June 28 Morning Session

AUDITORIUM

9:15 – 9:45 REGISTRATION AND WELCOME COFFEE

9:45 – 10:15 BENVINGUDA / WELCOME ADDRESS

Hble. Sr. Josep Huguet, Conseller d'Innovació, Universitat i Empresa, GenCat

Hble. Sra. Marina Geli, Consellera de Salut, GenCat
Representant del Magnífic Sr. Antoni Giró, Rector UPC

Introductory Remarks and thanks to Fundació Cellex
Prof. Lluís Torner, ICFO Director

MEDICAL OPTICS: LIGHT AS A TOOL FOR DIAGNOSIS AND THERAPY

10:15 – 11:00

"Optical Imaging and Spectroscopies to Extend the Surgeon's Vision"

Brian Wilson, Ontario Cancer Institute & Princess Margaret Hospital, Canada

11:00 – 11:45

"The doctor's view on Photonics - Clinical challenges and technological possibilities"

Katarina Svanberg, Department of Oncology, Lund University Hospital, Sweden & SPIE President 2010

11:45 – 12:00 COFFEE BREAK

12:00 – 12:45

"The neuro-cardiac axis: what we know about the brain in infants with severe congenital heart defects"

Daniel Licht, Neurovascular Imaging Lab, The Children's Hospital of Philadelphia, USA

12:45 – 13:30

"Shedding Light on the Brain: from Basic Questions to Clinical Perspectives"

Hellmuth Obrig, Max Planck Institute for Human Cognitive and Brain Sciences, Germany

13:30 – 15:30 NETWORKING LUNCH

Monday June 28 Afternoon Session

AUDITORIUM

15:30 – 16:00

"The BioRegion of Catalunya"

Montserrat Vendrell, BIOCAT

16:00 – 16:20

"Plasmon-based nanosensing: Towards early cancer detection"

Romain Quidant, ICFO

16:20 – 16:40

"Metabolic characterization of metastasis using Raman spectroscopy and potential for diffuse optics in fundamental oncology"

Àngels Sierra, IDIBELL

16:40 – 17:10 COFFEE BREAK

17:10 – 17:30

"Diffuse Optical Probes for Neuro- and Cancer-Therapy Monitoring"

Turgut Durduran, ICFO

17:30 – 17:50

"Imaging the brain in experimental models of stroke"

Anna Planas, IDIBAPS

17:50 – 18:10

"Application of novel optical technologies for continuous neuromonitoring in vascular neurology: preliminary experience in Sant Pau Hospital"

Raquel Delgado-Mederos, Hospital Santa Creu i Sant Pau

18:10 Closing

19:00 DINNER

Tuesday June 29 Morning Session

AUDITORIUM

NANOSCOPY AND OPTICAL SUPER-RESOLUTION IMAGING

9:45 – 10:30

"Optical microscopy goes "nano": a perspective"

Niek van Hulst, ICFO

10:30 – 11:15

"Multidimensional Fluorescence Imaging of disease for label-free diagnosis, molecular cell biology and High Content Analysis"

Paul French, Imperial College, UK

11:15 – 11:30 COFFEE BREAK

11:30 – 12:15

"Mapping neuronal connectivity using Stochastic Optical Reconstruction Microscopy: The BrainSTORM Project"

Melike Lakadamyali, ICFO and Department of Molecular and Cellular Biology, Center for Brain Science Harvard University, USA

12:15 – 13:00

"Combining light microscopy, protein quantification and network analysis to understand the EGF-MAPK pathway"

Luis Serrano, CRG

13:00 – 14:30 NETWORKING LUNCH

Tuesday June 29 Afternoon Session

AUDITORIUM

14:30 – 15:15

"Far-field super resolution optical methods: magic wands to examine cells at the nanoscale"

Alberto Diaspro, Italian Institute of Technology, Italy

15:15 – 15:45

"TCS STED CW - The Fast Track to Super-resolution"

Ulf Schwarz, Leica Microsystems, Life Science Research Division, Germany

15:45 – 15:55

"European release of the new STED CW System by Leica Microsystems"

Raniero Centrone, Leica Microsystems, Life Science Research Division, Germany

16:10 – 17:00

Visit to ICFO's **Super-resolution Light Microscopy & Nanoscopy Labs**

17:00 – 19:00

STED CW System Personalized demonstrations

If requested personal demonstrations will be also available on the 30th June
(For appointments please contact KTT@icfo.es)

