

**PRELIMINARY PROGRAMME**  
**International Conference on BioMedical Photonics**  
**16-17 March 2018, La Grande Motte, France**

**Friday, March 16, 2018**

**8:00- 10:00 Registration**

**8:40- 9 :00 OPENING CONFERENCE** – co-chairs : C. Gergely, J. Popp, H. Rignault

**PHOTONICS FOR IMAGING (1) – Raman, OCT, Multiphoton, Fluorescence, Phase**  
**Invited speakers (25+5 min slots)**

9 :00- 9 :30

Prof. Dr. Jürgen Popp– Leibniz IPHT Jena, Germany  
*Trends and challenges of clinical Raman spectroscopy*

9:30 – 10:00

Dr. Marcus Cicerone –NIST Gaithersburg USA  
*Efficient Generation and Sensitive Detection of Coherent Raman Signals*

10 :00 -11 :30

Prof. Francesco S. Pavone – LENS Sesto Fiorentino Italy  
*Toward 3D digital histology*

10 :00- 10 :30

Prof. Claude Boccara – Inst. Langevin – ESPCI Paris France  
*OCT*

**10 :30 – 11 :00 COFFEE BREAK**

11 :00-11 :30

Dr. Hervé Rignault – Inst Fresnel Marseille, France  
*Nonlinear label free microscopy and endoscopy*

11 :30- 12 :00

Prof. Paul French – Imperial College of London, UK  
*Multidimensional fluorescence imaging applied to microscopy and preclinical and clinical imaging*

12 :00 – 12 :30

Dr. Balázs Rózsa, Two-Photon Imaging Center/Institute of Experimental Medicine of HAS  
Budapest, Hungary  
*Fast 3D imaging of the information coding of spine, dendritic, and neuronal assemblies in large volumes of the visual cortex of behaving animals*

**12:30- 14:00 LUNCH BREAK**

**PHOTONICS FOR IMAGING (2)  
Raman, Multiphoton, Brillouin**

***Invited speakers (25+5 min slots)***

14 :00-14 :30

Dr. Charles Camp – NIST Gaithersburg  
USA

*Quantitative Coherent Raman Imaging  
with BCARS Microscopy: Physics-  
Informed Processing and Analysis*

14 :30- 15 :00

Dr. Nicolas Tricaud – INM INSERM  
Montpellier, France

*In vivo multiphoton and CARS imaging of  
mitochondria and myelin*

15 :00 – 16 :00

**4 Oral presentations (10+5 min slots)**

**PHOTONICS FOR IMAGING (3)  
OCT, Fluorescence, Phase, Thermal**

***Invited speakers (25+5 min slots)***

14 :00-14 :30

Prof. Sylvain Gigan- Lab. Kastler  
Brossel Université Pierre et Marie  
Curie, Paris France  
*OCT*

14 :30- 15 :00

Dr. Serge Monneret – Inst. Fresnel  
Marseille, France

*Using quantitative phase microscopy,  
from contrast enhancement to label-  
free histology.*

15 :00 – 16 :00

**4 Oral presentations (10+5 min slots)**

**16:00- 16:30 COFFEE BREAK**

**PHOTONICS FOR IMAGING (2)**  
**Raman, Multiphoton, Brillouin**

***Invited speakers (25+5 min slots)***

16 :00 – 16:30

Prof. Kishan Dholakia – University of St. Andrews, UK

*New directions for wide field imaging through scattering media*

16 :30- 17 :00

Dr. Giuseppe Antonacci- CLNS, Istituto Italiano di Tecnologia Rome, Italy  
*Noncontact Brillouin microscopy for three-dimensional submicron tissue and cell biomechanics*

17 :00 – 18 :00

***4 Oral presentations (10+5 min slots)***

**PHOTONICS FOR IMAGING (3)**  
**OCT, Fluorescence, Phase, Thermal**

***Invited speakers (25+5 min slots)***

16 :00 – 16:30

Dr. Cathie Ventalon IBENS ENS, Paris, France

16 :30- 17 :00

Dr. Guillaume Baffou – Inst. Fresnel Marseille, France  
*Temperature microscopy of single living cells.*

17 :00 – 18 :00

***4 Oral presentations (10+5 min slots)***

***19:00 –Departure for GALA DINNER***

**Saturday, March 17, 2018**

**Photonics for diagnostics and therapy  
(1)**

***Invited speakers (25+5 min slots)***

8 :30- 9 :00

Prof. Ledoux-Rak Isabelle LPQM -  
Institut d'Alembert - ENS Cachan France  
*Microresonators based optical sensors*

9 :00- 9 :30

Dr. Francesco Pedaci- CBS INSERM  
Montpellier, France  
*Optical and magnetic angular  
manipulation to probe biological systems  
at the nm-scale*

9 :30-10 :00

Prof. Dr. Turgut Durduran- ICFO  
Barcelona, Spain  
*From laboratory notebook to the clinic:  
the development of diffuse  
correlation spectroscopy through  
applications*

10 :00 – 10 :30

**2 Oral presentations (10+5 min slots)**

**Materials, markers and molecular  
probes for photonics**

***Invited speakers (25+5 min slots)***

9 :00- 9 :30

Prof. Michael Sailor – University of  
California San Diego, USA  
*Self-reporting Drug Delivery with Silicon  
Nanoparticles*

9 :30-10 :00

Dr. Jean Olivier Durand – ICGM- CNRS  
Montpellier, France  
*Mesoporous nanoparticles for two-  
photon theranostics*

10 :00 – 10 :30

**2 Oral presentations (10+5 min slots)**

**10:30- 11:00 COFFE BREAK**

**Photonics for diagnostics and therapy  
(2)**

**Invited speakers (25+5 min slots)**

11 :00- 11 :30

Dr. Jean-Baptiste Sibarita – IINS Univ de  
Bordeaux, France

*Pushing the limits of quantitative single  
molecule localization microscopy to  
decipher protein organization and  
dynamics at the nanoscale*

11 :30- 12 :00

Dr. Edouard Bertrand - Regional  
Montpellier RIO Imaging Platform  
France

*The power of smFISH for detecting and  
analyzing pathological cells in their  
native context*

12 :00 – 13 :00

**4 Oral presentations (10+5 min slots)**

**Lasers for health**

**Invited speakers (25+5 min slots)**

11 :00- 11 :30

Prof. Dr. Ronald Sroka – University  
Hospital Munchen, Germany

*Research and developments of laser  
assisted methods for translation into  
clinical application*

11 :30- 12 :00

Dr. Gerard Rey – Montpellier  
*Lasers in dentistry...*

12 :00 – 13 :00

**4 Oral presentations (10+5 min slots)**

**13:00- 14:30 LUNCH BREAK**

14 :30 – 15 :30

**Round table : Education in biomedical photonics**

**Industrial section : short slots on photonic technologies**

15 :30 – 16 :00

Industrial presentations (10 min slots)

**16:00- 16:30 COFFEE BREAK**

16 :30- 18 :00

Industrial presentations (10 min slots)

**18 :00 Conference Leave**