



QUANTITATIVE  
BIOIMAGING **qbi**  
CONFERENCE





## January 8, 2019— Lecture Room 2 (Dortoirs)

### 08:30-10:45 — Workshop: Adaptive Optics

Practical Aspects of Adaptive Optics for Microscopes

**Martin Booth** - *University of Oxford, Oxford, GB*

#193

### 10:45-11:00 — Coffee Break—Lecture Room 3

### 11:00-12:30 — Workshop: Machine Learning 1

Machine learning workshop: an introduction to machine learning and a taste of advanced methods

**Seth Flaxman** - *Imperial College London, Oxford, GB*

#226

### 12:30-13:30 — Lunch Break

### 13:30-16:45 — Workshop: Machine Learning 2

Machine learning workshop: an introduction to machine learning and a taste of advanced methods

**Seth Flaxman** - *Imperial College London, Oxford, GB*

#226

Large-Scale Optimization for Machine Learning

**Julien Mairal** - *Inria, Montbonnot, FR*

#227

Introduction to deep learning

**Christophe Zimmer** - *Institut Pasteur, Paris, FR*

#228

### 16:45-17:15 — Coffee Break—Lecture Room 3

### 17:15-19:15 — Workshop: 3D Super resolution Microscopy

Single-molecule localization microscopy: performing 3D super-resolution reconstruction using open-source software

**Daniel Sage** - *EPFL, Lausanne, CH*

#217

### 18:15-20:30 — Opening Reception (Foyer Hall 1)

## January 9, 2019— Lecture Room 1 (NEF)

<b>08:30-09:10 — Lecture (Machine Learning theme)</b>	
Michael Elad - Technion - Israel Institute of Technology, Haifa, IL	#177
<b>09:10-09:40 — Lecture (Machine Learning theme)</b>	
Florian Jug - Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, DE	#168
<b>09:40-10:10 — Lecture (Single Molecule Microscopy theme)</b>	
Silvio Rizzoli - Univ. Medical Centre Goettingen, Germany	#157

**10:10-10:40 — Coffee Break— Foyer (Hall 1)**

<b>10:40-11:40 — Minisymposium: Machine learning in bioimage analysis and microscopy</b>	
Gregory R Johnson - Allen Institute for Cell Science, Seattle, US	#236
Steve Pressé - Arizona State University, Tempe, US	#166
Christophe Zimmer - Institut Pasteur, Paris, FR	#207
<b>11:40-12:25 — Session: Single Molecule Microscopy</b>	
Bernd Rieger - TU Delft, Delft, NL	#146
Jonas Ries - EMBL, Heidelberg, DE	#145
Richard John Marsh - King's College London, London, GB	#66

**12:25-13:45 — Lunch Foyer (Hall 1)**

<b>13:45-14:25 — Pair Talk</b>	
Marino Zerial - MPI-CBG, Dresden, DE	#181
Yannis Kalaidzidis - Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, DE	#188
<b>14:25-14:55 — Lecture (Software development theme)</b>	
Kevin W Eliceiri - Univ. of Wisconsin at Madison, Madison, US	#187
<b>14:55-15:15 — Lecture (Past chair lecture)</b>	
Jörg Enderlein - Georg August University, Göttingen, DE	#27

**15:15-16:45 — Coffee Break— Poster Session 1—Foyer (Hall 1)**

<b>16:25-16:40 — Marketing Session: Oxford Nanolmaging</b>	
<b>16:45-18:45 — Minisymposium: Software design for microscopy hardware control</b>	#158
Winfried Wiegand - Allen Inst. for Cell Science, Seattle, US	
Mark Bates - MPI - Biophysical Chemistry - Göttingen, DE	
<b>18:45-19:30 — QBI student/post-doc chapter inaugural meeting (oom TBD)</b>	
<b>18:45-20:45 — Opening Reception and Poster Viewing - Foyer (Hall 1 - Room 11)</b>	

## January 9, 2019— Lecture Room 2 (Dortoirs)

**10:10-10:40 — Coffee Break—Foyer (Hall 1)**

**10:40-11:55 — Session: Optical Methods Developments**

Edward T F Rogers - <i>Univ. Of Southampton, Southampton, GB</i>	#120
Matz Liebel - <i>ICFO - ES</i>	#85
Ondrej Mandula - <i>CEA-Leti, Grenoble Cedex 9, FR</i>	#106
Thomas le Saux - <i>Ecole Normale Supérieure, Paris, FR</i>	#111
Jules Scholler - <i>ESPCI, Paris, FR</i>	#191

**11:55-12:25 — Session: Biological Applications of Optical Developments**

Falk Schneider - <i>University of Oxford, Oxford, GB</i>	#38
Aurélien Barbotin - <i>University of Oxford, Oxford, GB</i>	#108

**12:25-13:45 — Lunch Foyer (Hall 1)**

**15:15-16:45 — Coffee Break— *Poster Session 1—Foyer (Hall 1)***

**16:45-17:30 — Session: Applications of Single Molecule Microscopy**

Lydia A Danglot - <i>Inst. of Psychiatry &amp; Neurosciences of Paris, FR</i>	#42
Zofia Anna Parteka - <i>University of Warsaw, Warsaw, PL</i>	#80
Roland Brock - <i>Radboud University Medical Center, Nijmegen, NL</i>	#81

**17:30-18:30 — Session: Single Molecule Microscopy Experimental Approaches**

Joran Deschamps - <i>EMBL, Heidelberg, DE</i>	#34
Maximiliaan Huisman - <i>UMass Medical School, WORCESTER, US</i>	#67
Sandrine Leveque-Fort - <i>ISMO-CNRS, ORSAY, FR</i>	#82
Petar N Petrov - <i>W. E. Moerner - Stanford Univ., Stanford, US</i>	#110

**18:45-20:45 — Opening Reception and Poster Viewing Foyer (Hall 1 - Room 11)**

## January 10, 2019— Lecture Room 1 (NEF)

<b>08:30-09:20 — Lecture (Quantitative tools for subcellular trafficking)</b> Frederick Maxfield - <i>Weill Cornell Medical College, New York, US</i>	<b>#214</b>
<b>09:20-09:50 — Tutorial (Correlative imaging)</b> Judith Klumperman - <i>Univ. Medical Center Utrecht, , The Netherlands</i>	<b>#183</b>
<b>09:50-10:30 — Lecture (Imaging for BioPharma applications theme)</b> Ernst HK Stelzer - <i>Goethe-Univ. Frankfurt am Main, Frankfurt am Main</i>	<b>#167</b>
<b>10:30-10:40 — Poster Award Lecture</b> Klaus Yserentant - <i>Heidelberg University, Heidelberg, DE</i>	<b>#116</b>
<b>10:40-10:50 — Tribute to Maxime Dahan - Bassan Hajj (Institut Curie)</b>	
<b>10:50-11:15 — Coffee Break — Foyer (Hall 1)</b>	
<b>11:15– 12:15 — Minisymposium: -</b> <b>Quantitative tools to define subcellular trafficking processes</b>	
Ludger Johannes - <i>Institut Curie, Paris Cedex 05, FR</i>	<b>#162</b>
Geert van den Bogaart - <i>University of Groningen, Groningen, NL</i>	<b>#185</b>
Daniel Wüstner - <i>The University of Southern Denmark, Odense, DK</i>	<b>#221</b>
<b>12:10-13:30 — Lunch — Foyer (Hall 1)</b>	
<b>13:30-14:10 — Pair Talk</b>	
Khuloud Jaqaman - <i>UT Southwestern Medical Center, Dallas, US</i>	<b>#163</b>
Spencer Freeman - <i>Hospital for Sick Children, Toronto, CA</i>	<b>#194</b>
<b>14:10-15:05 — Session: Sample Methods Development</b>	
Joschka Peter Hellmeier - <i>TU Vienna, Vienna, AT</i>	<b>#28</b>
Amy N Moores - <i>STFC, Didcot, GB</i>	<b>#100</b>
Felix Braun - <i>Heidelberg University, Heidelberg, DE</i>	<b>#125</b>
<b>14:50-16:20 — Coffee Break — Poster Session 2 —Foyer (Hall 1)</b>	
<b>16:00-16:15 — Marketing Session : GE Healthcare</b>	
<b>16:15-16:20 — Marketing Session : Quantacell</b>	
<b>16:20-18:00 — Minisymposium : Microscopy in BioPharma</b>	
Per Uhlen - <i>Karolinska Institutet, Stockholm, SE</i>	<b>#164</b>
Simon Walker-Samuel - <i>University College London, London, GB</i>	<b>#170</b>
Friedemann Kiefer - <i>European Inst. For Mal. Imaging (EIMI), Münster, DE</i>	<b>#172</b>
Hans-Ulrich Dodt - <i>TU Vienna, Vienna, AT</i>	<b>#174</b>
E. Sally Ward - <i>Univ. Of Southampton/Texas A&amp;M Health Science Center, US</i>	<b>#190</b>

**18:30--20:30 — Dinner Break**

**20:30-22:00 — QBI Society Meeting (Foyer Hall 1)**

## January 10, 2019— Lecture Room 2 (Dortoirs)

**10:50-11:15 — Coffee Break—Foyer (Hall 1)**

**11:15-12:15 — Session:**

**Machine Learning in Single Molecule Microscopy and Deconvolution**

Yoav Shechtman - Technion, Israel Institute of Technology, Haifa, IL	#15
Emmanuel Moebel, Charles Kervrann - Inria, Rennes, FR	#61
Jean-Baptiste Masson - Institut Pasteur, Paris, FR	#143
Adrian Shajkofci - Idiap Research Inst. , Martigny, CH	#50

**12:10-13:30 — Lunch — Foyer (Hall 1)**

**13:30-15:00 — Session: Application of Image Analysis Approaches**

Benoit Wattellier - PHASICS, SAINT AUBIN, FR	#39
Hélène Bouvrais - IGDR - UMR 6290, Rennes, FR	#47
Sébastien Herbert - Institut Pasteur Paris, Paris, FR	#105
Giuseppe Chirico - Universita' di Milano-Bicocca, Milano, IT	#23
Façal Selka - INRA, Versailles, FR	#54
Annamaria Kiss - ENS de Lyon, Lyon, FR	#115

**14:50-16:20—Coffee Break — Poster Session 2 —Foyer (Hall 1)**

**16:20-18:05 — Session:**

**Data Analysis Methods Development for Single Molecule Microscopy**

Keith A Lidke - University of New Mexico, Albuquerque, US	#136
Yiming Li - European Molecular Biology Laboratory, Heidelberg, DE	#55
Miguel A Alonso - Institut Fresnel, Marseille, FR	#155
Rasmus Østergaard Thorsen - TUDelft, Rotterdam, NL	#122
Florian Leviet - Interdisciplinary Institute for NeuroScience, Bordeaux, FR	#46
Siewert Hugelier - KU Leuven, Heverlee, BE	#14
Karina Jouravleva - University of Massachusetts Medical School, Worcester, US	#33

**18:30--20:30—Dinner Break**

**20:30-22:00 — QBI Society Meeting (Foyer Hall 1)**

## January 11, 2019— Lecture Room 1 (NEF)

<b>08:30-09:20 — Lecture (Structured Illumination theme)</b>	
Rainer Heintzmann - <i>Institute of Physical Chemistry, , Germany</i>	#184
<b>09:20-09:40 — Lecture (Optics theme)</b>	
Pierre Bon - <i>CNRS - Univ. Bordeaux - IOGS, Bordeaux (Talence), FR</i>	#161
<b>09:40-10:10 — Tutorial (Spatial Statistics)</b>	
Edward Cohen - <i>Imperial College London, London, GB</i>	#148

**10:10-10:40—Coffee Break—Foyer (Hall 1)**

<b>10:40-12:10 Minisymposium: Structured illumination: a review of the state of the art</b>	
Jean-Christophe Olivo-Marin - <i>Institut Pasteur - CNRS 3691, Paris, FR</i>	#171
Sjoerd Stallinga - <i>Delft University of Technology, Delft, NL</i>	#91
Martin Booth - <i>University of Oxford, Oxford, GB</i>	#127
Thomas Huser - <i>University of Bielefeld, , Germany</i>	#154
Anne Sentenac - <i>CNRS Institut Fresnel, France</i>	#186

**12:10-13:30—Lunch—Foyer (Hall 1)**

<b>13:30-14:30 — Session: Structured Illumination</b>	
Pierre Jouchet - <i>CNRS, Orsay Cedex, FR</i>	#84
Thomas Mangeat - <i>CBI, Toulouse, FR</i>	#121
Laurent Mugnier - <i>ONERA, , FR</i>	#124
Stefan Wieser - <i>ICFO - The Inst. of Photonic Sciences, Castelldefels, ES</i>	#130

<b>14:30-15:15— Session: Machine Learning in High Throughput Imaging</b>	
Christopher P Calderon - <i>University of Colorado, Denver, US</i>	#165
Andreas Kleiber, Thomas Henkel	#36
Minh Doan - <i>Broad Institute of MIT and Harvard, Cambridge, US</i>	#159

**15:15-16h45—Coffee Break — Poster Session 3 —Foyer (Hall 1)**

**16:20-16:35— New R&D microscopy advances in France-BioImaging (Jean Salamero)**

**16:35-16:40 — GdR ImaBio : Complex Diffusion Analysis Challenge (Cyril Favard)**

<b>16:45-18:00 — Session: Image Analysis Methods Development</b>	
Dominic Waithe - <i>University of Oxford, Oxford, GB</i>	#10
Sripad Ram - <i>Pfizer, Inc., , United States</i>	#16
Perrine Paul-Gilloteaux - <i>CNRS, Nantes, FR</i>	#101
Maria Kalemánov - <i>Max Planck Institute of Biochemistry, Martinsried, DE</i>	#118
Denis Rouede - <i>Univ. of Rennes 1, Rennes - France, FR</i>	#142

**18:10-18:30 — Conference Closing**

**18:30-18:45 — Poster Award Announcement - Sponsored by Les Laboratoire Servier**

**19:00-23:00 — Closing Gala Dinner Reception —La French Tech -  
Le Pool (Le Mabilay, 2 rue de la Mabilais, Rennes)**



## January 11, 2019— Lecture Room 2 (Dortoirs)

**10:10-10:40 — Coffee Break—Foyer (Hall 1)**

**10:40-12:10 — Session: Applications in Cell Biology and Biophysics II**

Sofia Reshetniak - Univ. Medical Center Goettingen, Goettingen, DE	#20
Maryam Arab - Univ. of Birmingham, Edgbaston, Birmingham, GB	#32
Andreas M Arnold - TU Wien, WIEN, AT	#88
Alessandra Cambi - Radboud UMC, RIMLS, Nijmegen, NL	#99
Amin Fakhree - University of Twente, Enschede, NL	#153
Sreevidhya Ramakrishnan - Texas A&M University, , USA	#169

**12:10-13:30—Lunch—Foyer (Hall 1)**

**13:30-14:15 — Session: Spatial Statistics**

Scott Ward - Imperial College, UK	#53
Jasmine Burguet - INRA, Versailles, FR	#64
Jérôme Boulanger - MRC-LMB, Cambridge, US	#78

**14:15-15:15 — Session: Single Molecule Counting and Cluster Analysis**

Daniel Felipe Nino - University of Toronto, Mississauga, CA	#17
Dwiria Wahyuni - Université Grenoble Alpes, Grenoble, FR	#52
Magdalena Schneider - Vienna University of Technology, Vienna, AT	#71
Valentin Dunsing - University of Potsdam, Berlin, DE	#129

**15:15-16h45—Coffee Break — Poster Session 3 —Foyer (Hall 1)**

**16:45-18:00 — Session: Tracking**

Sean Andersson - Boston University, Boston, US	#58
Sandeep Manandhar - Inria, Rennes, FR	#43
Lorenz Stadler - University of Bayreuth, Bayreuth, DE	#68
Jeremy Adler - Uppsala University, Uppsala, SE	#79
Raimund J Ober - Texas A&M University, College Station, US	#192

**18:10-18:30 — Conference Closing (Room 1—NEF)**

**18:30-18:45 — Poster Award Announcement - Sponsored by Les Laboratoire Servier  
(Room 1 Nef)**

**19:00-23:00 — Closing Gala Dinner Reception —La French Tech -  
Le Pool (Le Mabilay, 2 rue de la Mabilais, Rennes)**

## January 11, 2019— Lecture Room 3 (Horizonz)

**10:10-10:40 — Coffee Break — Foyer (Hall 1)**

**12:10-13:30 — Lunch — Foyer (Hall 1)**

**13:30-14:15 — Session: Applications in Cell Biology and Biophysics**

Jacques Pécréaux - *IGDR, Rennes, FR*

#56

Blazej H Rusczycki - *Polish Academy of Sciences, Warszawa, PL*

#74

Philippe Andrey - *INRA, Versailles, FR*

#103

**14:15-15:15 — Session: Software**

Soundouas Messardi - *INRA, Jouy en Josas, FR*

#51

Philippe Roudot - *UT Southwestern Medical Center, USA*

#77

Grzegorz Bokota - *University of Warsaw, Warszawa, PL*

#89

Mohamed El Beheiry - *Institut Curie, France*

#144

**15:15-16h45 — Coffee Break — Poster Session 3 — Foyer (Hall 1)**

**16:45-18:00 — Session: Digital Pathology**

Leon van der Graaff - *Delft University of Technology, Delft, NL*

#93

Kawtar EL Karfi - *Medical and Pharmacy School, Mohammed V University,  
Rabat, Morocco, Temara, MA*

#97

Laura Nicolas-Saenz - *Universidad Carlos iii, Madrid, ES*

#133

Zbigniew Mikulski - *La Jolla Institute for Immunology, La Jolla, US*

#137

Natalie Holroyd - *University College London, London, GB*

#176

**18:10-18:30 — Conference Closing**

**18:30-18:45 — Poster Award Announcement - Sponsored by Les Laboratoire Servier**

**19:00-23:00 — Closing Gala Dinner Reception —  
La French Tech - Le Pool (2 rue de la Mabilais, Rennes)**



## Posters

### List of posters grouped based on topics

Poster session 1	Abstract IDs
Single Molecule Microscopy Methods Development	206, 209, 216
Optical Methods Development	128, 196, 215, 235, 240
Applications of Single Molecule Microscopy	117, 131
Single Molecule Microscopy Experimental Approaches	160, 212
Biological Applications of Optical Developments	19, 63, 76, 87, 223, 224, 232
Poster session 2	
Applications in Biopharma	230, 237
Machine Learning	12, 73, 86, 102, 104, 203, 241
Application of Image Analysis Approaches	37, 40, 233
Sample Methods Developments	22
Instrument Characterization	21, 114
Data Analysis Methods Development for Single Molecule Microscopy	107, 213
Poster session 3	
Tracking	25, 26, 72, 92, 198, 208
Applications in Cell Biology and Biophysics	13, 24, 35, 44, 60, 112, 132, 210, 229, 239
Spatial Statistics	135
Single Molecule Counting and Cluster Analysis	49, 62, 75, 139
Image Analysis Methods Development	109, 126, 140, 141
Digital Pathology	65
Software	31, 113, 134, 138, 211, 218, 220
Structured Illumination	30, 123

