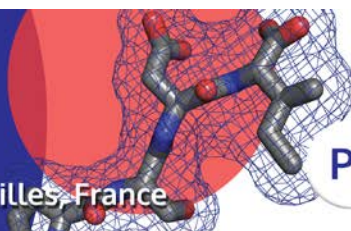


26<sup>th</sup> Protein Structure  
Determination  
in Industry conference

11<sup>th</sup> -13<sup>th</sup> November 2018 - Versailles, France



PSDI 2018



# PSDI 2018 - 26<sup>th</sup> Protein Structure Determination in Industry Meeting

11<sup>th</sup> – 13<sup>th</sup> November 2018

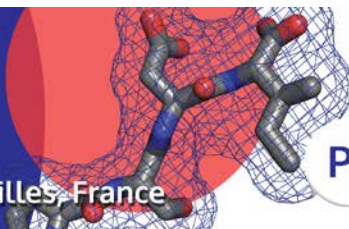
Hôtel Le LOUIS, Versailles Château - France

## Programme

Sunday, November 11 <sup>th</sup>			
14:30 - 15:15	Registration		
1 <sup>st</sup> session of workshops, In parallel			
15:15 - 16:45	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <b>Molecular Dimension/ Anatrace</b>  <i>Montespan room</i>                      Chair: James Gordon &amp; Edward Pryor                 </td> <td style="width: 50%; padding: 5px;"> <b>Proteros</b>  <i>Maintenon room</i>                      Chair: Lars Neumann, Stephan Krapp &amp; Claire Donat                 </td> </tr> </table>	<b>Molecular Dimension/ Anatrace</b> <i>Montespan room</i> Chair: James Gordon & Edward Pryor	<b>Proteros</b> <i>Maintenon room</i> Chair: Lars Neumann, Stephan Krapp & Claire Donat
<b>Molecular Dimension/ Anatrace</b> <i>Montespan room</i> Chair: James Gordon & Edward Pryor	<b>Proteros</b> <i>Maintenon room</i> Chair: Lars Neumann, Stephan Krapp & Claire Donat		
16:45 - 17:00	<i>Coffee break</i>		
2 <sup>nd</sup> session of workshops, In parallel			
17:00 - 18:30	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <b>Nanotemper</b>  <i>Montespan room</i>                      Chair: Pierrick Daniel &amp; Pierre Soule                 </td> <td style="width: 50%; padding: 5px;"> <b>Global phasing</b>  <i>Maintenon room</i>                      Chair: Gerard Bricogne                 </td> </tr> </table>	<b>Nanotemper</b> <i>Montespan room</i> Chair: Pierrick Daniel & Pierre Soule	<b>Global phasing</b> <i>Maintenon room</i> Chair: Gerard Bricogne
<b>Nanotemper</b> <i>Montespan room</i> Chair: Pierrick Daniel & Pierre Soule	<b>Global phasing</b> <i>Maintenon room</i> Chair: Gerard Bricogne		
18:30 - 19:00	Registration		
19:00 - 21:00	Welcome reception at the Hotel LE LOUIS		
21:00 - 22:00	Keynote speaker: A Decade of GPCR Structure-Based Drug Design - Structural insights into the allosteric control of GPCR activity <b>Andrew S. Doré</b> - <i>Heptares Therapeutics Ltd., UK</i>		

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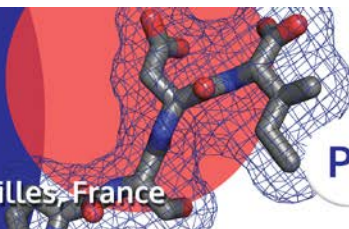
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<b>Monday, November 12<sup>th</sup></b>	
07:45 - 08:15	Registration
08:15 - 08:25	Welcome adress
<b>Session #1 – Biologics</b> Conference room Chair: Djordje Musil	
08:25 - 08:45	Structural biology for antibody design at Roche <b>Armin Ruf</b> - Roche Innovation Center Basel, Switzerland
08:45 - 09:05	Structural biology in the design of self-assembling protein nanoparticle vaccine antigens <b>Matthew J. Bottomley</b> - GSK, Rockville, USA
09:05 - 09:25	Anti-biopharmaceutical immunization: Analysis of anti-drug antibodies interactions <b>Thomas Bertrand</b> - Sanofi R&D, Vitry-sur-Seine, France
09:25 - 09:35	Sponsor talk : An analytical revolution: Introducing the next generation optima AUC <b>Anthony Curran</b> - Beckman Coulter, High Wycombe, U.K.
09:35 - 09:45	Sponsor talk : New direct in-situ & non-invasive technique for the monitoring of bio-pharma product in injectable syringes <b>David Jacob</b> - Cordouan Technologies, Pessac, France
09:45 - 09:55	Sponsor talk: Characterization of a novel ATP-cone driven activity regulation of ribonucleotide reductase by several techniques <b>Stéphane Rouquette</b> - Malvern Panalytical, Solna, Sweden
09:55 - 10:30	Coffee break, Exhibitors & Networking
<b>Session #2 – CryoEM</b> Conference room Chair: Wolfgang Baumeister	
10:30 - 11:15	Keynote speaker : Cryo-electron tomography: The promise and challenges of doing structural biology in situ <b>Wolfgang Baumeister</b> - Max Plank Institute of Biochemistry, Martinsried, Germany
11:15 - 11:35	Instruct-NL: A focus on high resolution cryo electron microscopy at NeCEN <b>Ludovic Renault</b> - The Netherlands Centre for Electron Nanoscopy, Leiden, The Netherlands

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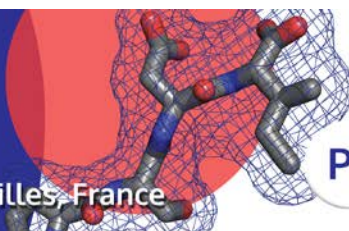
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11:35 - 11:55	How Cryo-EM can push your structural biology boundaries for drug discovery? <b>Hervé Remigy</b> - ThermoFisher Scientific, Eindhoven, The Netherlands
11:55 - 12:05	Sponsor talk: Detergent-free membrane protein sample preparation for cryo-electron microscopy <b>Barbara Maertens</b> - Cube biotech, Monheim, Germany
12:05 - 12:15	Sponsor talk: Chameleon: A pico-litre dispense, self-wicking system for automated plunge freezing <b>Paul Thaw</b> - TTP Labtech, Melbourn, UK
12:15 - 12:25	Sponsor talk : Pushing the boundaries of laboratory small angle X-ray scattering instrumentation <b>Soren Skou</b> - Xenocs Nordic, Hoersholm, Denmark
12:25 - 13:30	Lunch break (buffet) - Exhibitors & Networking
13:30	Departure for Synchrotron SOLEIL
<b>Session #3 - Cutting-edge technologies</b> SOLEIL amphitheatre Chair: Andrew Thompson	
14:20 - 14:40	The Salipro® system for stabilization of membrane proteins <b>André Heuer</b> - Salipro Biotech AB, Stockholm, Sweden
14:40 - 15:00	X-ray free electron laser: Opportunities for drug discovery <b>Michael Hennig</b> - LeadXpro AG, Villigen, Switzerland
15:00 - 15:10	Sponsor talk: EIGER collects best data at the Synchrotron and in the laboratory <b>Marcus Mueller</b> - DECTRIS Ltd., Baden-Dättwil, Switzerland
15:10 - 15:20	Sponsor talk: Latest innovations from Rigaku Oxford diffraction <b>Mark Benson</b> - Rigaku Europe, Oxford, U.K.
15:20 - 15:30	Sponsor talk: Structural biology research center in KEK/high energy accelerator research organization <b>Mikio Tanabe</b> - KEK Tsukuba, Ibaraki, Japan
15:30 - 16:10	Coffee break - poster session
16:10 - 17:20	Synchrotron SOLEIL visit
17:20 - 18:30	Round table
18:45	Departure for Versailles
19:30 - 22:30	Meeting Dinner

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Tuesday, November 13<sup>th</sup>

**Session #4 - Membrane proteins**

Conference room

Chair: Vadim Cherezov

08:30 - 09:15	Keynote speaker: Dissecting GPCR structure and dynamics with X-ray lasers <b>Vadim Cherezov</b> - University of Southern California, Los Angeles, USA
09:15 - 09:35	The high-resolution structure of a metabolite sensing GPCR bound to an intracellular nanobody <b>Matthias Haffke</b> - Novartis Pharma AG, Basel, Switzerland
09:35 - 09:55	Application of microscale thermophoresis to GPCRs <b>Alexey Mishin</b> - Moscow Institute of Physics and Technology, Dolgoprudny, Russia

**Session #5 - Biophysical methods**

Conference room

Chair: Alexey Rak

09:55 - 10:15	<sup>19</sup> F-NMR fragment screening at SANOFI <b>Magali Mathieu</b> - Sanofi R&D, Vitry-sur-Seine, France
10:15 - 10:35	Evaluation of SPR based screening campaigns: Implications to define performance parameters and hit selection criteria <b>Florian Krieger</b> - Evotec AG, Hamburg, Germany
10:35 - 11:05	Coffee break, Exhibitors and Networking

**Session #6 - Drug design case studies**

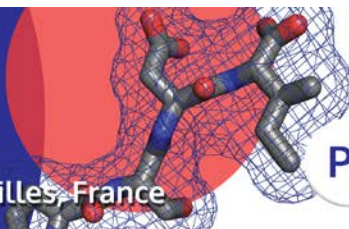
Conference room

Chair: Armin Ruf

11:05 - 11:25	A potent and orally bioavailable ERK1/2 series identified through fragment screening which modulates the phosphorylation and catalytic activity of ERK1/2 <b>Puja Pathuri</b> - Astex Pharmaceuticals, Cambridge, U.K.
11:25 - 11:45	Fragment screening of lipoprotein-associated phospholipase A <sub>2</sub> (Lp-PLA <sub>2</sub> ) and the structure-based development of potent and selective lead molecules <b>Philip Day</b> - Astex Pharmaceuticals, Cambridge, U.K.
11:45 - 12:05	Allosteric activation of striatal-enriched protein tyrosine phosphatase (STEP, PTPN5) by a fragment-like molecule <b>Dennis Fiegen</b> - Boehringer Ingelheim Pharma GmbH, Biberach an der Riss, Germany

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**Session #7 - Computational method & crystallization**

*Conference room*

Chair: Gérard Bricogne

12:05 - 12:25	Memproc: Tools for semi-automated processing of data from serial crystallography experiments <b>Matthias Haffke</b> – Novartis Pharma AG, Basel, Switzerland
12:25 - 12:45	Crystallophore, a nucleating and phasing agent <b>Olivier Maury</b> - École Normale Supérieure, Lyon, France
12:45 - 13:05	Anticipated biased condition method for macromolecular crystallization <b>Fabrice Gorrec</b> - MRC Laboratory of Molecular Biology, Cambridge, U.K.
13:05 - 13:15	Concluding remarks
13:15 - 14:00	<i>Lunch break (buffet)</i>
15:00	Visit of the Versailles castle for one who are registered (Duration 1h30)