PSDI 2024 Program

Sunday, 10th of November

SESSION	TIME	TALK
	11 am – 1 pm	Conference registration
	1 pm – 2 pm	**Bus 1/2/3 to SOLEIL, Meeting point in front of NOVOTEL**
	2 pm – 2:20 pm	Welcome session - *Sonja Kuhn (Servier), Jean Susini (Director of Synchrotron SOLEIL)*
Session 1: Emerging Technologies *Chairs: Pierre Legrand, Sonja Kuhn*	2:20 pm - 2:40 pm	Drugging the Undruggable – Rationalizing Targeted Protein Degradation - *Georg Petzold (Monte Rosa Therapeutics Inc)*
	2:40 pm – 3 pm	Identifying small molecules binding sites in RNA conformational ensembles with SHAMAN - *Paraskevi Gkeka (Sanofi)*
	3 pm – 3:20 pm	3D Structure of Monoclonal Antibodies In Solution By Electron Density Topography - *Joseph D. Ferrara (Rigaku Americas Corp)*
COFFEE BREAK – 30 min		
Session 2: Cryo-EM advancements in sample preparation & data processing *Chair: Pierre Legrand*	3:50 pm – 4:05 pm	EasyGrid: Automated Sample Preparation and Control for Cryo-Imaging Experiments - *Gergely Papp (EMBL Grenoble)*
	4:05 pm – 4:25 pm	CCPEM Pipeliner and Doppio: Software For End-To-End CryoEM Data Processing - *Matthew G. Iadanza (CCP-EM, STFC Rutherford Appleton Laboratory)*
	4:25 pm – 4:40 pm	Biomolecular Conformational Landscapes By MDSPACE: Cryo-EM Image Analysis Based On MD Simulations For Biomedical Applications - *Slavica Jonic (Sorbonne University & CNRS)*
	4:40 pm – 5 pm	Image processing warnings for the use of CryoEM to drug discovery – *Carlos Oscar Sorzano (CSIC)*
	5:15 pm – 6 pm	**Bus 1 Return to NOVOTEL**
	5 pm – 6 pm	SOLEIL Tour (optional)
	6:15 pm – 7 pm	**Bus 2&3 Return to NOVOTEL**
	7:15 pm – 9:30 pm	Exhibition, poster session, dinner

Monday, 11th of November

SESSION	TIME	TALK
	9 am – 9:15 am	Welcome session – *Sonja Kuhn (Servier), Pierre Legrand (SOLEIL)*
Session 3: Challenging targets: Cryo-EM of membrane proteins *Chair: Dave Brown*	9:15 am – 9:45 am	Enabling Structure-based Drug Discovery for Membrane Proteins: Insights Into Lipid-mediated Activation of GPR55 - *Dietmar Weichert (Boehringer Ingelheim)*
	9:45 am – 10:15 am	Cryo-EM on Solute Carriers – Basic Research and Drug interaction - *Christian Löw (EMBL Hamburg)*
	10:15 am – 10:45 am	Structural Dynamics of Insulin receptor signalling - implications for drug design - *Gerd Schluckebier (NovoNordisk)*
COFFEE BREAK – 30 min		
Session 4: Structural Biophysics *Chair: Alexey Rak*	11:15 am – 11:30 am	Integral Membrane Proteins for Biophysics and Cryo-EM applications. Case Study: Ion Channel TrpML3 - *Nathan R. Zaccai (Domainex Ltd.)*
	11:30 am – 11:45 am	NMR-Driven Discovery of Cryptic Pockets in IL13 for Fragment Drug Discovery - *Roberto Maya-Martinez (Sygnature Discovery)*
	11:45 am – 12:15 pm	Advanced Structural Mass Spectrometry in Vaccinology Research - *Natalie Norais (GSK)*
Gold Sponsor talks	12:15 pm – 12:25 pm	BIOSAXS GmbH: Beyond the Algorithm: Why Solution SAXS Still Matters in the Age of AI-Driven Design
	12:25 pm – 12:35 pm	Refeyn: Biomolecular characterization with mass photometry
	12:35 pm – 12:45 pm	Thermo Fisher: Advancing Drug Discovery With Cryo-Electron Microscopy
	12:45 pm – 12:55 pm	CryoCLOUD: Speeding Up Cryo-EM Data Analysis With Scalable Cloud Infrastructure And Novel Algorithms
LUNCH TIME		
Session 5: Structural Biophysics: NMR in SBDD *Chair: Alexey Rak*	2:30 pm – 3:10 pm	NMR versatility: fast, cheap, exact - *Roland Riek (ETH Zuerich)*
	3:10 pm – 3:35 pm	Harnessing Advanced NMR Methodologies to Enhance Biophysics and Structural Biology in Drug Discovery - *Nicola Salvi (Sanofi)*
	3:35 pm – 3:55 pm	Insights From Three Decades Of Hands-on Use Of Protein Structures In The Pharma Industry - *Steven LaPlante (NMX Research and Solutions, inc.)*
COFFEE BREAK – 30 min		
Session 6: Synergies AI & experimental approaches *Chair: Christian Wiesmann*	4:30 pm – 5 pm	Functional design of soluble analogs of integral membrane proteins - *Casper Goverde (EPFL, Switzerland)*
	5 pm – 5:30 pm	Let AI Be Your Guide: Protein Engineering, Hypothesis Building And Beyond - *Matthias Haffke (Novartis)*
	5:30 pm – 6 pm	The future of macromolecular crystallography in the age of machine learning - *Arwen Pearson (University of Hamburg)*
FREE EVENING		
	7 pm – 10 pm	Seine Cruise & dinner (bring your dinner ticket)

Tuesday, 12th of November

SESSION	TIME	TALK
Session 7: Emerging Technologies *Chair: Chun-Wa Chung*	9 am – 9:30 am	Growing bigger to see small, running with cryoEM scissors, and other Adventures in Structureland - *James Kiefer (Genentech)*
	9:30 am – 10 am	Fuelling an Open Science Approach to Early-Stage Drug Discovery - *Martin A. Walsh (Diamond Light Source)*
	10 am – 10:30 am	In Situ Structures and Architectures of β-amyloid and Tau Pathology within Alzheimer's Disease Patient Brain - *Madeleine A.G. Gilbert (University of Leeds)*
COFFEE BREAK – 30 min		
Session 8: Case studies *Chair: Djordje Musil*	11 am – 11:30 am	The unprecedented mechanism of lipid transport inhibition by the antibiotic Zosurabalpin - *Thomas Clairfeuille (Roche)*
	11:30 am – 12 pm	The novel structure of Salt inducible kinase 3 reveals determinants for isoform selective design - *Helena Käck (AstraZeneca)*
Gold Sponsor talks	12 pm – 12:10 pm	Nuvisan: Your trusted partner in gene-to-high resolution structure and challenging membrane targets.
	12:10 pm – 12:20 pm	ALPX: Accelerating Drug Discovery: ALPX Advanced Automated Crystallography And Cutting-Edge Screening Pipelines
	12:20 pm – 12:30 pm	Selvita: Integrated Fragment-Based Drug Discovery at Selvita
	12:30 pm – 12:40 pm	Cube Biotech: Characterizing membrane protein in near-native conditions using the NativeMP polymer suite
LUNCH TIME		
Session 9: Case studies *Chair: Andreas Kuglstatter*	2 pm – 2:35 pm	Discovery of ASTX295: A bone-marrow sparing MDM2 antagonist. From concept to clinic - *Martin Noble (Newcastle University, CRUK Newcastle Drug Discovery Unit)*
	2:35 pm – 2:50 pm	Fragment-Based Discovery of Allosteric Modulators of β-Glucocerebrosidase - *Pravin Mahajan (Astex Pharmaceuticals)*
	2:50 pm – 3:20 pm	The Discovery of AZD5305: A PARP1–DNA Trapper with High Selectivity for PARP1 over PARP2 and Other PARPs - *Marianne Schimpl (AstraZeneca)*
	3:20 pm – 3:45 pm	Closing remarks
END		