

Wednesday, 7th February 2024 - Microsymposium UDM1
Venue: IBS seminar room

8:30-8:45	Registration	
8:50	Welcome	Michael Krisch ESRF Director of Research
<i>Session I: Chair: Daniele de Sanctis</i>		
09:00	Keynote: XFEL- and synchrotron-based serial crystallography studies of the membrane-bound proton pump cytochrome c oxidase	Gisela Brändén University of Gothenburg
9:30	MicroMAX – a beamline with time-resolved macromolecular crystallography capabilities at the MAX IV Laboratory	Oskar Aurelius Lund University
9:50	The TR-icOS setup at the ESRF: time-resolved microsecond UV-Vis absorption spectroscopy on protein crystals	Sylvain Engilberge ESRF Grenoble
10:10	Rationale and experimental setup for the use of lower energies in serial micro-crystallography experiments at XAIRA beamline	Judith Juanhuix ALBA synchrotron light Facility
10:30	Deciphering protein motion at the new ID29 EBS-ESRF	Julien Orlans ESRF Grenoble
10:50	<i>Coffee break</i>	
<i>Session II: Chair: Adriana Miele</i>		
11:10	Keynote: Envisioning a shared future for serial diffraction from X-rays and electrons	Gerhard Hofer Stockholm University
11:40	The XFEL Hub at Diamond: Dynamic Structural Biology on Earth	Allen Orville Diamond Light Source
12:00	Time lapse crystallography using the ultrasonic acoustic levitation diffractometer and its prospects at 4th generation synchrotrons	Takashi Tomizaki Paul Scherrer Institute
12:20 - 13:30	<i>Lunch</i>	
<i>Session III: Chair: Montserrat Soler-Lopez</i>		
13:30	Keynote: Towards deciphering the structure and dynamics of biological and non-biological molecules using time-resolved serial crystallography at ID29	Jose Martin Garcia IQF-BC CSIC Madrid
14:00	Decrypting a cryptochrome using time-resolved crystallography and time-resolved spectroscopy; from nanoseconds to seconds.	Nicolas Caramello ESRF Grenoble
14:20	Serial macromolecular crystallography: developments for high throughput measurements over large parameter spaces.	Dominik Oberthur CFEL - DESY Hamburg

14:40	Millisecond Cryo-Trapping Through Simplified Time-Resolved Crystallographic Technique	Sihyun Sung EMBL Hamburg
15:00	A redox switch allows binding of Fe(II) and Fe(III) ions in the cyanobacterial iron binding protein FutA from Prochlorococcus	Ivo Tews University of Southampton
15:20	<i>Coffee break</i>	
15:40	Keynote: Time-resolved serial crystallography using photo caged compounds	Henrike Müller-Werkmeister University of Potsdam
16:10	Ultrafast Dynamics of Biomolecules from X-ray Crystallography Data	Ahmad Hosseinizadeh University of Wisconsin Milwaukee
16:30	Serial Time-Resolved Crystallography at ESRF ID 29: a User Perspective	Tek Malla University of Wisconsin Milwaukee
16:50	Keynote: A New Approach to Mix-and-Inject Serial Synchrotron Crystallography Resolves the Function of DJ-1	Kara Zielinski Cornell University
17:20	Concluding remark and general discussion	
18:00	<i>End of the Symposium</i>	