iNEXT – Discovery 2nd Annual Scientific Meeting

August 29-30, 2022, Warsaw, Poland

Monday, August 29, 2022

01:30 PM – 02:30 PM	Registration
02:00 PM – 02:30 PM	**Anastassis Perrakis - Opening remarks**
02:30 PM – 04:00 PM	**Scientific session 1** Chair: Marcin Nowotny
02:30 PM – 03:00 PM	**Roman Jerala,** National Institute of Chemistry, Slovenia *Coiled-coil motifs for the design of cellular logic circuits and new protein folds*
03:00 PM – 03:30 PM	**Sebastian Glatt**, Malopolska Centre of Biotechnology, Poland *tRNAslational control by tRNA modification enzymes*
03:30 PM – 04:00 PM	**Arwen Pearson,** Universität Hamburg, Germany *T-REXX: a dedicated endstation for time-resolved macromolecular crystallography*
04:00 PM – 04:30 PM	Break
04:30 PM – 06:00 PM	**Scientific session 2** Chair: Grzegorz Dubin
04:30 PM – 05:00 PM	**Meindert Lamers,** Leiden University Medical Center, The Netherlands *Eight structures of MutS during DNA mismatch repair*
05:00 PM – 05:30 PM	**Markus Weingarth,** Utrecht University, The Netherlands *Mechanisms of lipid-targeting antibiotics*
05:30 PM – 06:00 PM	**Daren Fearon,** Diamond Light Source, England *Open science discovery of SARS-CoV-2 antivirals*
06:00 PM – 08:00 PM	**Poster session & Refreshment –** on-site only

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871037

Tuesday, August 30, 2022

09:00 AM – 12:15 AM	**Scientific session 3** Chair: Manfred Weiss
09:00 AM – 10:00 AM	**Keynote Lecture**
	Leonid Sazanov, The Institute of Science and Technology, Austria *Molecular machines in the membrane: structures and mechanisms of the respiratory chain components*
10:00 AM – 10:55 AM	**Short talks selected from posters – part I**
10:00 AM – 10:15 AM	**Pankaj Thapa**, International Institute of Molecular and Cell Biology in Warsaw, Poland *Heterotypic Assembly Mechanism Regulates CHIP E3 Ligase Activity*
10:15 AM – 10:30 AM	**Inga Songailiene**, Vilnius University, Lithuania *Functional study of toxin-antitoxin HEPN-MNT and type I-D CRISPR-Cas system*
10:30 AM – 10:45 AM	**Dario Piano**, University of Cagliari, Italy *The cryo-EM structure of the S-layer deinoxanthin-binding complex of Deinococcus radiodurans informs properties of its environmental interactions*
10:45 AM – 11:00 AM	**Elżbieta Wątor**, Małopolska Centre of Biotechnology, Jagiellonian University, Poland *Half way to hypusine. Structural characterization of human deoxyhypusine synthase*
11:00 AM – 11:15 AM	**Coffee break**
11:15 AM – 11:35 AM	**Jan Wollenhaupt,** Helmholtz Centre for Materials and Energy, Germany *Frag4Lead – First Step from Crystallographic Fragment Hits to Improved Binders*
11:35 AM – 11:55 AM	**Matthias Geyer**, University of Bonn, Germany *Identification of a new target site: Cryo-EM structure of NLRP3 bound to CRID3*
11:55 AM – 12:15 PM	**Svetlana Pylaeva,** Paderborn University, Germany *Investigating Novel Mixed Valence DNP Radicals for in-cell NMR and beyond*
12:15 PM – 01:15 PM	**Lunch break**

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01:15 PM – 03:30 PM	**Scientific session 4** Chair: Anastassis Perrakis
01:15 PM – 01:45 PM	**Jakub Szlachetko,** National Synchrotron Radiation Centre SOLARIS, Poland *SOLARIS synchrotron infrastructure for biomedical research*
01:45 PM – 02:30 PM	**Short talks selected from posters – part II**
01:45 PM – 02:00 PM	**Marta Kulik**, University of Warsaw, Poland *Modeling the electrostatic potential density maps of proteins at varying resolutions*
02:00 PM – 02:15 PM	**Anna Karłowicz,** University of Gdańsk, Poland *In vitro reconstitution reveals a key role of human mitochondrial EXOG in RNA primer processing*
02:15 PM – 02:30 PM	**Mariusz Czarnocki-Cieciura**, International Institute of Molecular and Cell Biology in Warsaw, Poland *Cryo-EM structure of TnsB-transposon end complex*
02:30 PM – 03:30 PM	**Keynote Lecture**
	Brenda Schulman, Max Planck Institute of Biochemistry, Germany *Visualizing ubiquitin ligation*

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