

24-25 November 2021

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10th Symposium on Structural Proteomics

24 November, 2021 - online			
14:00-14:20	Online	<p>Evgeniy Petrotchenko, PhD, Senior Scientist, Laboratory of Omics Technologies and Big Data for Personalized Medicine and Health, Skolkovo Institute of Science and Technology</p> <p>Christoph H. Borchers, Ph.D., Full Member at McGill Centre for Translational Research in Cancer, Senior Investigator at Lady Davis Institute for Medical Research Director of Segal Cancer Proteomics Centre, Professor, Department Oncology, Faculty of Medicine at McGill University; Head of Laboratory of Omics technologies and Big data for Personalized Medicine and Health, Visiting Professor at the Center for Computational and Data-Intensive Science and Engineering, Skoltech</p> <p>Evgeniy N. Nikolaev, Corresponding member of Russian Academy of Sciences, Full professor of Skolkovo Institute of Science and Technology, Head of Laboratory of Mass Spectrometry</p>	Opening Ceremony
14:20-14:40	Online	<p>Michael O. Glocker, Professor, Proteome Center Rostock University of Rostock</p>	"From Intact Transition Epitope Mapping to Seroconversion Analysis by Affinity-Mass Spectrometry"
14:40-15:00	Online	<p>Petr Popov, Assistant Professor, Center for Computational and Data-Intensive Science and Engineering, iMolecule, Skolkovo Institute of Science and Technology</p>	"Spatiotemporal identification of binding sites with computer vision"
15:00-15:20	Online	<p>Anna Potapenko, Research Engineer, DeepMind</p>	"Highly accurate protein structure prediction with AlphaFold"
15:20-15:40			Break

15:40-16:00	Online	Albert Konijnenberg , Product Manager Integrative Structural Biology, Thermo Fisher Scientific	"Mass spectrometry based screening methods for quality assessment of Cryo-EM samples"
16:00-16:20	Online	Henning Urlaub , Research Group Leader at the Max Planck Institute, professor at the University Medical Center Göttingen	"UV and chemical crosslinking of proteins to RNA and DNA in vitro and in vivo - LC-MS/MS and database search"
16:20-16:40	Online	Dmitry N. Ivankov , Assistant Professor, Center of Life Sciences, Skolkovo Institute of Science and Technology	"Proteome-wide AlphaFold 3D protein structure prediction: perspectives for finding stabilizing mutations by in silico mutagenesis"
16:40-16:50			Break
16:50-17:10	Online	Swantje Lenz , PhD Student, Technische Universität Berlin	"Reliable identification of protein-protein interactions by crosslinking mass spectrometry"
17:10-17:30	Online	Frank Sobott , Ph.D., ProfChair in Biomolecular Mass Spectrometry at University of Leeds	"An integrated approach to defining a-synuclein structure"
17:30-17:50	Online	John R. Yates, III , Professor Department of Chemical Physiology The Scripps Research Institute	"Structural Aspects of CFTR DF508's Failure to Mature"
17:50-18:10	Online	Jared Mohr , Graduate Student Department of Genome Sciences University of Washington	"Multidimensional distance constraints in the mitochondrial interactome"
18:10-18:30	Online	Manuel Matzinger , PostDoc within the Protein Chemistry and MassSpec facility headed by Karl Mechtler, Research Institute of Molecular Pathology (IMP)	"Mimicked synthetic ribosomal protein complex for benchmarking cross-linking mass spectrometry workflows"

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25 November, 2021 - online			
12:00-12:10	Online		Welcoming Words
12:10-12:30	Online	Kasper Dyrberg Rand , Professor, University of Copenhagen	"Developing HDX-MS technology to study the conformational dynamics of complex protein systems"
12:30-12:50	Online	Rudolf Aebersold , Professor ETH Zurich Institute of Molecular System Biology	"Towards the modular proteotype"
12:50-13:10	Online	Nir Kalisman , Institute of Life Sciences, The Hebrew University of Jerusalem	"In situ CLMS study of NSP2 and Nucleocapsid proteins from SARS-CoV-2"
13:10-13:30	Online	Konstantinos Thalassinos , Professor of Mass Spectrometry Institute of Structural and Molecular Biology at University College London	"Probing the Structure and Dynamics of Proteins by Means of Cyclic Ion Mobility Spectrometry and Electron Capture Dissociation"
13:30-14:20			Break
14:20-14:40	Online	Natallia Strushkevich , Assistant professor at the Center for Computational and Data-Intensive Science and Engineering, Skoltech	"Family-based approach in structural proteomics: case study of cytochrome P450s (CYPome)"
14:40-15:00	Online	Petr Novak , Head of the Laboratory of Structural Biology and Cell Signaling Institute of Microbiology of the Czech Academy of Sciences	"Utilization of Fast Photochemical Oxidation of Proteins and Top-down Mass Spectrometry for Structural Characterization of Protein Complexes"
15:00-15:20	Online	Richard Scheltema , Assistant Professor, Utrecht University	"PhoX driven crosslinking mass spectrometry"
15:20-15:40	Online	David Schriemer , Professor, Biochemistry & Molecular Biology University of Calgary	"Unlocking the organic chemistry toolbox: towards whole human proteome crosslinking with freeze-substitution"
15:40-16:00	Online	Carlos Cordeiro , Associate Professor Director of FT-ICR and Structural Mass Spectrometry Laboratory Faculty of Sciences of the University of Lisbon Campo Grande	"How reversible is irreversibility? The case of protein glycation"
Join Zoom-Conference https://skoltech-ru.zoom.us/j/97646035511?pwd=OG0vUVVCRzBkOXo2bUhPSWFWcThhZz09 Conference ID: 976 4603 5511			

Organizer

Laboratory of Omics Technologies and Big Data for Personalized Medicine and Health

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