

**One-Day Online Roundtable on Bioinformatics**  
**II Annual School for Young Researchers on Genetic Technologies**  
 15 April 2023 (Saturday) - Zoom  
 09:00 (Time of Moscow, GTM +3) | 14:00 (Time of Malaysia, GTM +8)

**Description:**

We highlight advances in the field of multi-omics technologies (multimodal omics approaches). Bioinformatics integrates different layers of molecular organization. We seek for junctions in between biology, chemistry and allied disciplines to understand and manipulate biological systems of biomedical importance.

Please start your connection at 13:45 Malaysia and 08:45 Moscow time. Event will end at 18:40 Malaysia and 13:40 Moscow time. **Moderators:** Prof. Andrey Lisitsa and Prof. Firdaus Raih.

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**Event translation:** <https://www.youtube.com/watch?v=q0LE6npKhco>

**PROGRAM**

Schedule	Speaker	Affiliation	Talk	Interests
Malaysia: 14.05-14.10 Russia: 09.05-09.10	Welcome address from Prof. Firdaus RAIH (Universiti Kebangsaan Malaysia, UKM) Introductory word: Prof. Andrey LISITSA (Tyumen State University, Russia)			
Malaysia: 14.15-14.30 Russia: 09.15-09.30	Prof. Firdaus Raih	Universiti Kebangsaan Malaysia (UKM)	Substructural Similarity Searching for the Functional Annotation of Protein and RNA Three-Dimensional Structures	Structural Biology
Russia: 09.35-09.45 Malaysia: 14.35-14.45	Mr. Amir Taldaev, Research Engineer	Tyumen State University, Russia	Lipid II Pyrophosphate Recognition by Nisin in Aqueous Environment: High-resolution NMR Study	Structural Biology
Malaysia: 14.50-15.00 Russia: 09.50-10.00	Dr. Norazah Basar	UTM, Faculty of Science	In Silico Evaluation of Phytoconstituents from Cassia Species	Medical plants
Russia: 10.05-10.15 Malaysia: 15.05-15.15	Mr. Nikita Ionov	Institute of Biomedical Chemistry (IBMC), Department of Bioinformatics, Russia	Phyto4Health: Database of Phytocomponents from Russian Pharmacopoeia Plants	Medical plants
Russia: 10.20-10.30 Malaysia: 15.20-15.30	Prof. Vladimir Poroikov	IBMC, Laboratory of Structural and Functional Drug Design	Evaluation of Hidden Potential of Medicinal Plants based on Estimation of Biological Activity Spectra of their Phytocomponents	Medical plants
Malaysia: 15.35-15.45 Russia: 10.35-10.45	Dr. Su Datt Lam	UKM, Faculty of Science and Technology	Small Changes, Big Impact: Unveiling the Biological Significance of Mutually Exclusive Exons	Genomics
Russia: 10.50-11.10 Malaysia: 15.50-16.10	Ms. Arina Gordeeva, Ms. Anastasia Valueva, Research Engineers	IBMC, Nanotechnology Laboratory, Russia	Integrative Omics – an Arsenal of Institute of Biomedical Chemistry  Detection of the Proteins Using Chips for an Atomic Force Microscope	Omics
Malaysia: 16.15-16.25 Russia: 11.15-11.25	Dr. Mohd Firdaus Abdul Wahab	UTM, Faculty of Science	Metagenomics for Investigating the Microbiomes of Industrial Waste Utilizations	Metagenomics Biosafety
Russia: 11.30-11.40 Malaysia: 16.30-16.40	Dr. Oxana Galzitskaya	Institute of Protein Research, Russian Academy of Sciences	To Be Folded, to Be Unfolded or to Be Aggregated on the Example of the Ribosomal Protein S1 and Its Fragments	Structural Biology
Malaysia: 16.45-16.55 Russia: 11.45-11.55	Dr. Syazwani Itri Amran	UTM, Faculty of Science	Evaluation of Mutation-Induced Structural Instability of Glucose-6-Phosphate-Dehydrogenase Variants	Structural Biology
Russia: 12.00-12.10 Malaysia: 12.00-12.10	Ms. Elizaveta Sarygina, Instructor	IBMC, Center for Practical Education, Russia	Accuracy of NGS Data Processing Algorithms Using Simulated Data	Transcript omics
Malaysia: 17.15-17.25 Russia: 12.15-12.25	Dr. Teck Yew Low	UKM, Medical Biology Institute, Malaysia	Uncovering Novel Microproteins for Colorectal Cancer (CRC) through a Synergistic Analysis of In Vitro and Computational Techniques	Proteomics
Russia: 12.30-12.40 Malaysia: 17.30-17.40	Mr. Timur Shkrigunov, Junior Researcher	IBMC, Laboratory of Protein Pathophysiology	Comparative Proteoinformatics Draws Attention to Protein Expression Abnormalities in HaCaT Keratinocytes Exposed to Non-Toxic Concentrations of Surfactants	Proteomics
Malaysia: 17.45-17.55 Russia: 12.45-12.55	Dr. Jen Kit Tan	UKM, Faculty of Medicine	Fecal Lipidomic and Metabolomic Profiling in Aging Rats	Lipidomics Metabolomics
Russia: 13.00-13.10 Malaysia: 18.00-18.10	Ms. Anna Kozlova, Senior Instructor	IBMC, Center for Practical Education, Russia	Bioinformatics Pipeline to Process and Analyze the Data of Directed Infusion MS: Obesity Case	Metabolomics
Malaysia: 18.15-18.25 Russia: 13.15-13.25	Dr. Ahmed Mediani	UKM, Institute of Systems Biology, Malaysia	Metabolic and Biochemical Changes in Induced Obese-Diabetic Rats Treated with <i>Phyllanthus niruri</i> Extract and the Associated Mechanism using NMR-based Metabolomics Approach	Metabolomics Medical Plants
Malaysia: 18.30-18.40 Russia: 13.30-13.40	Concluding remarks: Prof. Vladimir Poroikov, Prof. Firdaus Raih			