10.40 – 11.05	Jerzy Adamski (Helmholtz Zentrum München, Germany; Yong Loo Lin School of Medicine, National University of Singapore, Singapore; IBKMG, Faculty of Medicine, University of Ljubljana): Metabolomics studies of mechanisms and biomarkers of complex diseases
11.05 – 11:30	Karl Storbeck (Stellenbosch University, SAR): Biosynthesis, metabolism and bioactivity of 11-oxygenated androgens
11.30 – 11.45	Marija Gjorgoska (IBKMG, Faculty of Medicine, University of Ljubljana): 11-oxyandrogens in endometrial and ovarian cancers
11.45 – 12.00	Luka Roškar (General Hospital Murska Sobota; Faculty of Medicine, University of Ljubljana): Models including angiogenic factors as candidate biomarkers of endometrial cancer
12.00 – 13.00	Lunch break
13.00 – 14.30	Plenary session 7: MOLECULAR BIOLOGY AND CLINICAL RESEARCH ON RARE DISEASES OF THE SKIN
	Chair: M. Liović, Medical Centre for Molecular Biology
13.00 – 13.10	Mirjana Liović (MCMB, IBKMG, Faculty of Medicine, University of Ljubljana): Medical Centre for Molecular Biology: current projects and future perspectives
	(MCMB): current projects and future perspectives
13.10 – 13.25	Mirjana Liović (MCMB, IBKMG, Faculty of Medicine, University of Ljubljana): Skin fragility in epidermolysis bullosa and novel therapy approaches development
13.25 – 13.40	Polona Zakošek (Debra Slovenia): Patient association DEBRA Slovenia
13.40 – 14.05	Duško Ilić (Kings College London, UK): Stem cells in treatment of rare diseases of skin, from disease modelling to therapy
14.05 – 14.30	Andreja Ambriović Ristov (Rudjer Bošković Institute, Zagreb, Croatia): Talin2 and KANK2 functionally interact to regulate microtubule dynamics, paclitaxel sensitivity and cell migration

14.30 – 15.30 Poster session with coffee

15.30 – 16.30 Plenary session 8:

MOLECULAR BIOLOGY IN CLINICAL RESEARCH
OF RARE DISEASES

Chair: N. Debeljak, Medical Centre for Molecular Biology

15.30 – 15.50 Rajko Kušec (School of Medicine, University of Zagreb, Croatia):

How is the MPN genetics information changing our clinical judgment?

15.50 – 16.10 Irena Preložnik Zupan / Saša Anžej Doma (University Medical Centre Ljubljana):
Diagnosis and management of familial erythrocytosis

16.10 – 16.20 Aleš Maver (University Medical Centre Ljubljana): Next generation sequencing for diagnosis of rare

16.20 – 16.30 Tadej Pajič (University Medical Centre Ljubljana):
Analysis and interpretation of next-generation sequencing data in practice

diseases in Slovenia

16.30 – 17.30 Plenary session 9:

MOLECULAR BIOLOGY IN PRECLINICAL RESEARCH
OF CANCER

Chair: P. Hudler, Medical Centre for Molecular Biology

16.30 – 16.50 Martina Bergant (Laboratory for Environmental and Life Sciences, University Nova Gorica):

APOBEC proteins play an important role in Human papillomavirus infection and oncogenesis

16.50 – 17.10 Ario de Marco (Laboratory for Environmental and Life Sciences, University Nova Gorica):
 Combination of pre-immune libraries and tailored panning design allows for the selection of ligands with pre-definite binding characteristics

17.10 – 17.30 Klementina Fon Tacer (Texas Center for Comparative Cancer Research, USA):

Tumor antigens at the crossroads of male fertility and cancer therapy resistance — a single-cell perspective

17.30 Closing of the symposium



BIOCHEMISTRY AND MOLECULAR GENETICS IN MEDICINE

Scientific symposium with international participation on the occasion of the 50th anniversary of the Institute of Biochemistry and Molecular Genetics (1972-2022) and the 30th anniversary of the Medical Centre for Molecular Biology (1992-2022) at the Faculty of Medicine, University of Ljubljana

6.-7.7.2023

Large lecture hall, Faculty of Medicine, Korytkova 2, Ljubljana



06.07.2023	DAY 1	11.40 – 12.10	Julia C. Stingl (University Clinic Aachen, Germany): Safety in polymed-cation and pharmacogenetics based	16.40 – 17.10	Bojan Vujkovac (General Hospital Slovenj Gradec): Fabry nephropathy in focus: diagnostics and
8.00 - 8.30	Registration		precision dosing: the clinical perspective of drug-drug- gene interactions	17.10 – 17.40	management Albina Nowak (University Hospital Zürich, Switzerland):
8.30 – 9.00	Opening of the symposia and welcome address	12.10 – 12.30	Sara Redenšek Trampuž (IBKMG, Faculty of Medicine, University of Ljubljana): Biomarkers of neurodegeneration: towards personalized management of Alzheimer's and Parkinson's disease	17.40 – 18.00	Novel biomarkers of Fabry nephropathy Tina Levstek (IBKMG, Faculty of Medicine, University of Ljubljana):
9.00 – 10.30	Plenary session 1: ENZYME RESEARCH FROM BENCH TO BEDSIDE		-		Genetic and epigenetic biomarkers for the development and progression of Fabry nephropathy
	Chair: A. Bavec, Laboratory of enzyme research	12.30 – 14.00	Lunch break	07.07.2022	DAVA
9.00 – 9.10	Aljoša Bavec: Laboratory of enzyme research: current projects and future perspectives	14.00 – 15.30	Plenary session 3: EXTRACELLULAR VESICLES - NEW SOURCE	07.07.2023 8.30 – 10.00	DAY 2 Plenary session 5:
9.10 – 9.40	Zrinka Kovarik (Institute for Medical Research and Occupational Health, Zagreb, Croatia):		OF BIOMARKERS OF DISEASE Chair: M. Lenassi, Laboratory for extracellular vesicle		FUNCTIONAL GENOMICS AND SYSTEMS MEDICINE Chair: D. Rozman, Medical Centre for Molecular Biology
9.40 – 10.10	The Toxicity of Organophosphorus Compounds Can Be Reduced by Cholinesterase Activity Alessandro Pesaresi (Istituto di Cristallografia - C.N.R, Trieste, Italy):	14.00 – 14.10	research Metka Lenassi (IBKMG, Faculty of Medicine, University of Ljubljana): Laboratory for extracellular vesicles: driving	8.30 – 8.45	Damjana Rozman, Tadeja Režen (CFGBC, IBKMG, Faculty of Medicine, University of Ljubljana): Centre for functional genomics and bio-chips — from omics to systems medicine and translational research
	Structural and mechanistic enzymology of acetylcholinesterase at the crossroads between Ljubljana and Trieste	14.10 – 14.40	fundamental and biomarkers discoveries of EVs Benedetta Bussolati (University of Torino, Italy): Stem cell-derived extracellular vesicles as therapeutic	8.45 – 9.10	Ruchi Bansal (University of Twente, The Netherlands): (Nano)Technologies empowering understanding and treatment of liver diseases
	Boštjan Petrič (IBKMG, Faculty of Medicine, University of Ljubljana): How does paraoxonase 1 function in cerebrospinal		and diagnostic tools in kidney diseases Miha Arnol (University Medical Centre Ljubljana): Molecular biomarkers in kidney transplantation	9.10 – 9.30	Dubravka Švob Štrac (Inštitut Ruđer Bošković, Zagreb, Croatia): In search for biomarkers of neuropsychiatric disorders: new
	fluid? Some findings from a study of Alzheimer's dementia patients	15.00 – 15.15	Marija Holcar (IBKMG, Faculty of Medicine, University of Ljubljana): Variability of blood-derived extracellular vesicles in healthy humans	9.30 – 9.45	perspectives on early diagnosis and personalized therapy Tadej Battelino, Jernej Kovač (University Medical Centre and Faculty of Medicine, University of Ljubljana):
10.30 – 11.00	Coffee break	15.15 – 15.30	David Badovinac (University Medical Centre Ljubljana):		Slovenian Reference Genome Project
11.00 – 12.30	Plenary session 2: PHARMACOGENETICS AND PERSONALIZED		Predicting surgical resectability of pancreatic cancer based on plasma extracellular vesicle characteristics	9.45 – 10.00	Vladka Čurin Šerbec (Blood Transfusion Centre, Ljubljana): Biobanking in Slovenia
	MEDICINE Chair IV Dalžan Dhawnaca anatics labouatem.	15.30 – 16.30	Poster session with coffee	10.00 – 10.30	Coffee break
	Chair: V. Dolžan, Pharmacogenetics laboratory Vita Dolžan (IBKMG, Faculty of Medicine, University of Ljubljana): Pharmacogenetics Laboratory: current projects and	16.30 – 18.00	Plenary session 4: TRANSLATIONAL MEDICAL BIOCHEMISTRY Chair: K. Trebušak Podkrajšek, Laboratory for translational	10.30 – 12.00	Plenary session 6: MOLECULAR MECHANISMS AND BIOMARKERS IN HORMONE-DEPENDENT DISEASES
11.10 – 11.40	future perspectives Magnus Ingelman Sundberg (Karolinska institutet, Stockholm, Sweden): The missing heritability in pharmacogenomics	16.30 – 16.40	medical biochemistry Katarina Trebušak Podkrajšek (IBKMG, Faculty of Medicine, University of Ljubljana): Laboratory for translational medical biochemistry: current projects and future perspectives		Chair: T. Lanišnik Rižner, Laboratory for molecular basis of hormone-dependent diseases and biomarkers
				10.30 – 10.40	Tea Lanišnik Rižner (IBKMG, Faculty of Medicine, University of Ljubljana): Integrative approach: from steroid hormones to multiomics biomarker discovery