

## Scientific Program of the 14th BSS

<b>Sunday 25th June</b>		
15.00	Bus departure from Trnavské mýto	
<b>15.00–18.30</b>	<b>Registration</b>	
19.00–	Welcome dinner	
<b>Monday 26th June</b>		
7.30–9.00	Breakfast	
9.00–9.10	Opening ceremony ( <b>Miroslav Kooš, Jaroslav Katrlík</b> )	
9.10–9.55	PL1 <b>Sabine L. Flitsch</b>	SYNTHETIC AND ANALYTICAL TOOLS IN GLYCOSCIENCES
9.55–10.40	PL2 <b>Nikolay Nifantiev</b>	PYRANOSIDE- <i>INTO</i> -FURANOSIDE REARRANGEMENT: NEW REACTION IN CARBOHYDRATE CHEMISTRY AND ITS APPLICATION IN OLIGOSACCHARIDE SYNTHESIS
10.40–11.05	Coffee break 1	
11.05–11.25	OP1 <b>Ladislav Petruš</b>	TOWARD SYNTHESIS OF HEXA-ANHYDRO-CYCLODODECANE-DODECOL, SUGAR-BASED ANALOGUE OF DODECAHEDRANE POSSESSING A CAVITY FOR HYDROGEN BONDING
11.25–11.35	FP1 <b>Ivan M. Ryzhov</b>	SYNTHESIS AND SEROLOGICAL USE OF FUNCTION-SPACER-LIPID CONSTRUCTS CONTAINING LEWIS AND CHIMERIC LEWIS/ABH GLYCANS
11.35–11.45	FP2 <b>Alessio Borio</b>	CHEMICAL SYNTHESIS OF BOTH ISOMERS OF BACTERIAL METABOLITE D- <i>GLYCERO</i> --D- <i>MANNO</i> -HEPTOSE-1,7-BISPHOSPHATE
12.00–14.00	Lunch 1	
14.00–14.30	IL1 <b>Vito Ferro</b>	SYNTHESIS AND APPLICATIONS OF HEPARAN SULFATE MIMETICS

14.30–14.50	OP2 <b>Kecheng Li</b>	PREPARATION, ANALYSIS AND BIOLOGICAL ACTIVITIES OF SINGLE CHITOOOLIGOSACCHARIDES
14.50–15.00	FP3 <b>Andrea Schenkmayrová</b>	REDOX REGULATION AS AN ANTISTAPHYLOCOCCAL DRUG TARGET
15.00–15.25	Coffee break 2	
15.25–15.55	IL2 <b>Michaela Wimmerová</b>	HOST-PATHOGEN RECOGNITION: THE ROLE OF CARBOHYDRATE BINDING PROTEINS
15.55–16.15	OP3 <b>Lenka Malinovská</b>	CARBOHYDRATE-BASED INHIBITORS OF LECTINS FROM PATHOGENIC MICROORGANISMS
16.15–16.35	OP4 <b>Juraj Lutišan</b>	GLUCOSIDE IDENTIFICATION IN COMPLEX SAMPLES USING FRAGMENT ION SEARCH
16.35–17.00	<b>Poster flash presentations</b>	Presentation of posters will be possible by short announcement (2 min)
17.00–19.00	Poster presentation	
19.00 –	Dinner	

### **Tuesday 27th June**

7.30–9.00	Breakfast	
9.00–9.45	PL3 <b>Friedrich Altmann</b>	BEYOND THE GOLDEN STANDARD - N-GLYCAN ANALYSIS WITH ULTIMATE POWER OF ISOMER DISCRIMINATION AND ITS APPLICATION TO BIOLOGICAL QUESTIONS
9.45–10.05	OP5 <b>Vernon Reinhold</b>	GLYCAN SPATIAL SEQUENCING WITH SPECTRAL DOCUMENTATION, SSSD
10.05–10.25	OP6 <b>Peter Both</b>	FILLING THE $\alpha$ 2,6-SIALIDASE GAP IN THE GLYCAN ANALYSIS AND REMODELING TOOLBOX
10.25–10.50	Coffee break 3	
10.50–11.20	IL3 <b>Katharina Paschinger</b>	UNEXPECTED N-GLYCOMIC COMPLEXITY IN INVERTEBRATES

11.20–11.40	<b>OP7 Marek Nemčovič</b>	GLYCOMIC AND GENOMIC APPROACH IN A CLINICAL CASE OF SUSPECTED SLOVAKIAN CDGx PATIENT
11.40–11.50	<b>FP4 Jaroslav Katrlík</b>	LECTIN-BASED PROTEIN MICROARRAY AS TOOL FOR GLYCO-BIOMARKER ANALYSIS: FOCUS ON CONGENITAL DISORDER OF GLYCOSYLATION
11.50–13.00	Lunch 2	
13.30–	Half day trip + Gala dinner	
<b>Wednesday 28th June</b>		
7.30–9.00	Breakfast	
9.00–9.45	<b>PL4 Lokesh Joshi</b> (presented by <b>Michelle Kilcoyne</b> )	ALIMENTARY GLYCOBIOLOGY - IMPLICATIONS IN HEALTH AND DISEASE
9.45–10.05	<b>OP8 Vladimir V. Lupashin</b>	COG COMPLEX CONTROLS GOLGI TRAFFICKING AND GLYCOSYLATION MACHINERIES
10.05–10.25	<b>OP9 Jan Tkac</b>	APPLICATION OF BIOSENSORS IN GLYCOPROFILING OF CANCER BIOMARKERS
10.25–10.50	Coffee break 4	
10.50–11.20	<b>IL4 Emil Paleček</b>	CHEMICAL MODIFICATION, ELECTROCHEMISTRY AND IMMUNOASSAYS OF GLYCOPROTEINS AND GLYCANS
11.20–11.50	<b>IL5 Tomas Bertok</b>	LOW COST, DISPOSABLE, NANOSTRUCTURED INTERFACES FOR GLYCOMIC STUDIES AND MEDICAL DIAGNOSTICS
11.50–12.00	<b>FP5 Filip Kveton</b>	DETECTION OF A TUMOR-ASSOCIATED ANTIBODY 2C4 BY A GLYCAN BIOSENSOR BASED ON THE TN ANTIGEN
12.00–14.00	Lunch 3	
14.00–14.45	<b>PL5 Francesco Peri</b>	SUGAR-BASED TOLL-LIKE RECEPTOR 4 (TLR4) MODULATORS: PHARMACEUTICAL STUDIES AND THERAPEUTIC PERSPECTIVES

14.45–15.05	OP10 <b>Nino Trattnig</b>	SYNTHESIS AND VACCINE POTENTIAL OF NOVEL LOIGOMANNOSIDES AGAINST HIV-1
15.05–15.25	OP11 <b>Joseph M. Hayes</b>	GLYCOGEN PHOSPHORYLASE AS A TARGET FOR TYPE 2 DIABETES: COMPUTER-AIDED DESIGN OF BETA-D-GLUCOPYRANOSE DERIVATIVES AS CATALYTIC SITE INHIBITORS
15.25–15.50	Coffee break 5	
15.50–16.20	IL6 <b>Hiroaki Tateno</b>	GLYCOME OF STEM CELLS
16.20–16.40	OP12 <b>Johann Dion</b>	DEVELOPMENT OF A DRUG DELIVERY SYSTEM BASED ON A LECTIN CARRIER TARGETING INDUCED PLURIPOTENT STEM CELLS
16.40–17.00	OP13 <b>Markus Roucka</b>	APPLICATION OF LECTIN ARRAY TECHNOLOGY: AN ORTHOGONAL METHOD FOR ANTIBODY CHARACTERIZATION
17.00–17.10	FP6 <b>Michelle Kilcoyne</b>	GLYCOMICS MICROARRAYS FOR ELUCIDATING THE ROLE OF GLYCOSYLATION IN PATHOGENIC INTERACTIONS AND RESPONSES
17.10–17.20	FP7 <b>Stephen Cunningham</b>	LET'S GET SPECIFIC – GLYCAN RECOGNITION MOLECULES FOR DIAGNOSTIC AND PRONOSTIC APPLICATION
17.20–17.30	FP8 <b>Erika Chocholova</b>	NEW IMPEDIMETRIC LECTIN BIOSENSOR IN ARRAY FORMAT FOR ANALYSIS OF HUMAN IGG SAMPLES ISOLATED FROM PATIENTS SUFFERING FROM RHEUMATOID ARTHRITIS
17.30–17.40	FP9 <b>Martina Križáková</b>	GLYCAN PROFILING ANALYSES OF ALPHA-2-MACROGLOBULIN FROM DIFFERENT SERUM SAMPLES USING LECTIN-BASED MICROARRAY
19.00–	Dinner	

### **Thursday 29th June**

7.30–9.00	Breakfast	
9.00–9.45	PL6 <b>Stephen C. Fry</b>	BORON BRIDGING OF RHAMNOGALACTURONAN-II, A PECTIC POLYSACCHARIDE DOMAIN: TRYING TO COPY <i>IN VITRO</i> WHAT THE PLANT ACHIEVES <i>IN VIVO</i>
9.45–10.05	OP14 <b>Lenka Franková</b>	HETERO-TRANS-B-GLUCANASE, A NOVEL WALL REMODELLING ENZYME
10.05–10.25	OP15 <b>Peter Biely</b>	GLUCURONOYL ESTERASES – ENZYMES WITH UNEXPLORED BIOTECHNOLOGICAL POTENTIAL
10.25–10.50	Coffee break 6	

10.50–11.20	<b>IL7 Chunlin Xu</b>	STRUCTURAL ELUCIDATION OF PLANT CELL WALL POLYSACCHARIDES AND THEIR DERIVATIVES BY INTEGRATED ENZYMATIC, CHROMATOGRAPHIC, AND MASS SPECTROMETRIC APPROACHES
11.20–11.40	<b>OP16 Marina Ciancia</b>	OCCURRENCE OF SULFATED PYRANOSIC ARABINANS IN CELL WALLS FROM GREEN ALGAE
11.40–12.00	<b>OP17 Stjepan K. Kračun</b>	RECIPROCAL FLUORESCENT OLIGOSACCHARIDE PROBES FOR DETAILED TRACKING OF DEVELOPMENTALLY REGULATED POLYSACCHARIDES IN EXTRACELLULAR MATRICES OF DIFFERENT ORGANISMS
12.00–14.00	Lunch 4	
14.00–14.30	<b>IL8 Vojtěch Spiwok</b>	TOWARDS ACCURATE PREDICTION OF CONFORMATIONAL EQUILIBRIA OF MONOSACCHARIDES BY MOLECULAR SIMULATIONS
14.30–14.50	<b>OP18 Ekaterina Baeva</b>	STRUCTURE OF POLYSACCHARIDES ISOLATED FROM BASIDIOCARPS OF MUSHROOM <i>PLEUROTUS OSTREATUS</i>
14.50–15.10	<b>OP19 Juraj Kóňa</b>	SEARCH OF SELECTIVE INHIBITORS OF GOLGI $\alpha$ -MANNOSIDASE II
15.10–15.30	<b>OP20 Vladimír Sládek</b>	INTERACTION PATTERN SWITCHING IN LIGAND•••RECEPTOR BINDING IN GOLGI $\alpha$ -MANNOSIDASE II INDUCED BY INHIBITORS PROTONATION STATE
17.00–17.15	Poster awards	
17.15–	Farewell party including wine tasting at the Castle	
<b>Friday 30th June</b>		
7.30–9.00	Breakfast	
9.00–9.10	Closing remarks ( <b>Miroslav Kooš, Jaroslav Katrlík</b> )	
Morning	Bus departure from Smolenice	