

# 15BSS Final Scientific & Social Program

## Monday 20.6.2022

- 12:00-18:00** Registration at the Smolenice Castle
- 14:00** Bus departure from Bratislava to Smolenice
- 18:10-18:20** Opening ceremony  
*Jaroslav Katrlík, Stanislav Kozmon*
- 18:20-19:00** PL1 GLYCOSYLTRANSFERASES AS TARGETS FOR THERAPEUTIC INTERVENTION IN VARIOUS DISEASES  
*Igor Tvaroška*
- 19:00** Welcome Dinner

## Tuesday 21.6.2022

- 7:30-9:00** Breakfast
- 9:00-9:40** PL2 LECTINS FROM PATHOGENS: FROM STRUCTURAL GLYCOBIOLOGY TO ANTIADHESIVE STRATEGIES  
*Anne Imberty*
- 9:40-10:10** IL1 GLYCONANOMATERIALS AND GALECTINS IN BIOMEDICINE  
*Pavla Bojarová*
- 10:10-10:20** FP1 STUDYING THE BINDING OF POLYMERIC GLYCONANOPARTICLES AND LECTINS BY MEANS OF FLUORESCENCE CORRELATION SPECTROSCOPY  
*Tanja Lüdtke, Patricia Perez-Schmidt, Laura Polito, Sergio Moya*
- 10:20-10:40** OP1 LECTINS FROM INSECT AND HUMAN PATHOGEN *PHOTORHABDUS* SPP.  
*Michaela Wimmerová, Eva Fujdiarová, Pavel Dobeš, Josef Houser, Marek Korsák, Filip Melicher, Pavel Hyršl*

<b>10:40-11:00</b>		Coffee Break
<b>11:00-11:30</b>	IL2	LEARNING THE ABC'S OF MYCOBACTERIAL GALACTAN SYNTHESIS AND TRANSPORT <i>Katarína Mikušová</i>
<b>11:30-12:00</b>	IL3	MICROBIAL MEANS AND METHODS FOR S-LINKED GLYCOSYLATION <i>Rao Alka, Sharma Yogita, Ahlawat Shimona</i>
<b>12:00-12:20</b>	OP2	DEVELOPMENT OF DIVALENT LECA LIGANDS AS ANTIVIRULENCE AGENTS AGAINST <i>PSEUDOMONAS AERUGINOSA</i> <i>Eva Zahorska, Sakonwan Kuhaudomlarp, Francesca Rosato, Kai Stober, Saverio Minervini, Sultaan Yousa, Martin Lepsik, Joscha Meiers, Dirk Hauck, Emilie Gillon, Thorsten Kinsinger, Katharina Rox, Anna K. H. Hirsch, Winfried Römer, Anne Imberty, Alexander Titz</i>
<b>12:20-12:40</b>	OP3	CRUCIAL PARAMETERS IN LECTIN-BASED GLYCOPROTEIN MICROARRAY AND APPLICATION IN CANCER GLYCOPROFILING <i>Paras. H. Kundalia, Kristína Kianičková, Lucia Pažitná, Branislav Bystrický, Jaroslav Katrlík</i>
<b>12:40-14:00</b>		Lunch
<b>14:00-14:40</b>	PL3	BOOSTING INSIGHTS ON THE IMMUNOPATHOLOGY OF DISORDERS OF GLYCOSYLATION <i>Carlota Pascoal, Pedro Granjo, Marek Nemčovič, Zuzana Pakanová, Rebeka Kodriková, Ján Mucha, Zelia Silva, Ricardo Lagoa, Vanessa dos Reis Ferreira, <u>Paula A. Videira</u></i>
<b>14:40-14:50</b>	FP2	THE APPLICATION OF MALDI-TOF FOR DIAGNOSTICS OF MUCOPOLYSACCHARIDOSES TYPE I AND II <i>Filip Pančík, Zuzana Pakanová, Anna Hlavatá, Anna Šalingová, Marek Nemčovič, Stanislav Kozmon, Peter Baráth</i>
<b>14:50-15:20</b>	IL4	INHIBITION OF O-GLCNAC TRANSFERASE - THE CELL'S METABOLIC GAUGE THAT ALTERS ITS FATE <i>Marko Anderluh, Elena M. Loi, Matjaž Weiss, Cyril Ballsolier, Tihomir Tomašič, Martina Gobec, Roland Pieters</i>
<b>15:20-15:40</b>	OP4	MUCIN O-GLYCANS: SYNTHESIS AND ATTENUATION OF <i>CANDIDA ALBICANS</i> VIRULENCE <i>Rachel Hevey</i>

<b>15:40-16:00</b>	OP5	THE PLACENTAL MUCIN-LIKE CD24 INTERACTS WITH SIGLEC-10 AND IS DOWN REGULATED IN PREECLAMPSIA: <i>IN-VITRO</i> AND <i>IN-VIVO</i> STUDIES <i>Marei Sammar, Hamutal Meiri, Daniel Vaiman</i>
<b>16:00-16:20</b>		Coffee Break
<b>16:20-16:50</b>	IL5	NEW POSSIBILITIES OF ANALYSIS OF GLYCANS AND GLYCOPROTEINS USING ELECTROCHEMICAL METHODS <i>Veronika Ostatná, H. Černocká, T. Galicová, L. Římánková a M. Trefulka</i>
<b>16:50-17:10</b>	OP6	CATALYSIS VS. RECOGNITION IN GLYCAN BASED ELECTROCHEMICAL BIOSENSORS <i>Shlomo Yitzchaik</i>
<b>17:10-17:30</b>	OP7	SOX/MXENE-CHIT/SPCE BIOSENSOR FOR DETECTION OF POTENTIAL PROSTATE CANCER MARKER SARCOSINE IN URINE SAMPLES <i>Štefánia Hrončeková, Tomáš Bertók, Lenka Lorencová, Ján Tkáč</i>
<b>17:30-17:40</b>	FP3	DETECTION OF ANTIGLYCAN ANTIBODIES USING IMMUNOASSAYS AND MAGNETIC PARTICLES <i>Anna Blšáková, Lenka Lorencová, Filip Květoň, Veronika Vráblová, Ján Tkáč</i>
<b>17:40-17:50</b>	FP4	EXOSOMES AS POTENTIAL BIOMARKERS FOR CANCER <i>Natália Košútová, Tomáš Bertók, Alena Gábelová, Katarína Kozics, Ján Tkáč</i>
<b>18:00-19:45</b>		Dinner
<b>20:00-21:30</b>		Poster Session 1 ( <b>P1-P19</b> )

## Wednesday 22.6.2022

- 7:30-9:00** Breakfast
- 9:00-9:40** PL4 FROM STEREOCONTROLLED GLYCOSYLATION TO AUTOMATED CHEMICAL SYNTHESIS OF GLYCANS  
*Alexei V. Demchenko*
- 9:40-10:00** OP8 ACCELERATED AND OPTIMIZED SOLID PHASE GLYCAN SYNTHESIS  
*Mattan Hurevich*
- 10:00-10:20** OP9 CHEMICAL SYNTHESIS OF SUGAR NUCLEOTIDE DONORS FOR THE IDENTIFICATION AND CHARACTERIZATION OF PLANT ARABINOGALACTAN GLYCOSYLTRANSFERASES  
*Irene Pasini, Fabian Pfrengle*
- 10:20-10:40** OP10 SYNTHESIS OF OLIGOSACCHARIDES RELATED TO PLANT RHAMNOGALACTURONAN-II  
*Uwe Osswald, Fabian Pfrengle*
- 10:40-11:00** Coffee Break
- 11:00-11:30** IL6 NOVEL ENZYMES FOR UNLOCKING RECALCITRANT XYLAN  
*Evangelos Topakas, Christina Pentari, Efstratios Nikolaivits, Constantinos Katsimpouras, Christos Kosinas, Jean-Guy Berrin, Anastasia Zerva, Maria Dimarogona*
- 11:30-11:50** OP11 XYLANASES OF GLYCOSIDE HYDROLASE FAMILY 30  
*Katarína Šuchová, Vladimír Puchart, Peter Biely*
- 11:50-12:20** IL7 GLYCOSIDASES AS A SYNTETIC TOOL IN BIOCATALYSIS  
*Vladimír Mastihuba*
- 12:20-12:30** FP5 EFFECT OF HEMICELLULOSES ON STRUCTURE AND MECHANICAL PROPERTIES OF BACTERIAL CELLULOSE-BASED COMPOSITES  
*Vadym Chibrikov, Piotr Mariusz Pieczywek, Justyna Cybulska, Artur Zdunek*

**12:30-14:00** Lunch

**14:30-22:00** Half day trip + Social Dinner

## **Thursday 23.6.2022**

**7:30-9:00** Breakfast

**9:00-9:40** PL5 THE ALGORITHMIC BEAUTY OF THE STARCH GRANULE  
*Serge Perez*

**9:40-10:00** OP12 GLYFINDER AND GLYPROBITY: ONLINE TOOLS FOR  
FINDING AND CURATING OLIGOSACCHARIDES IN THE  
PDB  
*David W. Montgomery, Oliver C. Grant, Robert J. Woods*

**10:00-10:10** FP6 SIMULATION OF OLIGOSACCHARIDE BINDING TO  
HEV32 DOMAIN  
*Jan Beránek, Vojtěch Spiwok*

**10:10-10:20** FP7 NEB REACTION PATH OTIMIZATIONS OF THE O-GLCNAC  
TRANSFERASE REACTION MECHANISMS BY QM/MM  
CALCULATIONS  
*Stanislav Kozmon, Igor Tvaroška, Tomáš Trnka*

**10:20-10:30** FP8 MODELING OF PLANT CELL WALL POLYSACCHARIDES  
AND THEIR ASSEMBLIES  
*Piotr Mariusz Pieczywek, Jolanta Cieśla, Justyna Cybulska,  
Wojciech Płaziński, Artur Zdunek*

**10:30-10:50** Coffee Break

**10:50-11:30** PL6 THE EFFECT OF DIFFERENT EXTRACTION CONDITIONS  
ON THE PHYSICOCHEMICAL PROPERTIES,  
CONFORMATION AND BRANCHING OF PECTINS  
*Gordon A. Morris, Danielle C. Reynolds, Laura J. Denman,  
Onome Obodo-Ovie, Serife Uruncuoglu and Hana A.S. Binhamad*

- 11:30-11:50** OP13 GLYCAN ARRAYS FOR PROBING INTERACTIONS OF THE IMMUNE SYSTEM WITH ZWITTERIONIC OLIGOSACCHARIDES  
*Iain B. H. Wilson, Barbara Eckmair, Katharina Paschinger*
- 11:50-12:10** OP14 THE INFINITE VARIETY OF THE INVERTEBRATE GLYCOUNIVERSE  
*Katharina Paschinger, Shi Yan, Iain B. H. Wilson*
- 12:10-12:30** OP15 BIG SCIENCE WITH SMALL FOOTPRINT (Commercial Lecture)  
*Stanislav Kukla (MERCK)*
- 12:30-14:00** Lunch
- 14:00-14:30** IL8 ENTERING THE N-GLYCAN STRUCTURE JUNGLE FROM TWO SIDES  
*Helm Johannes, Stadlmann Johannes, Altmann Friedrich*
- 14:30-14:50** OP16 STRUCTURAL DIVERSITY OF N-GLYCANS IN GREEN ALGAE  
*Réka T. Mócsai, Markus Blaukopf, Johannes Stadlmann, Friedrich Altmann*
- 14:50-15:10** OP17 TOWARDS FULL CONTROL OVER PROTEIN GLYCOSYLATION: CELL-FREE GLYCOENGINEERING OF THE SARS-COV-2 SPIKE PROTEIN  
*Johannes Ruhнау, Mariana Juarez-Orosio, Lisa Wenzel, Tuan Hoang Son, Edgar Alberto Alcala-Orozco, Thomas Rexer, Udo Reichl*
- 15:10-15:20** FP9 COVID-19: NEW PERSPECTIVES THOROUGH TISSUE GLYCOPROFILING  
*Kristína Kianičková, Lucia Pažitná, Paras Kundalia, Zuzana Pakanová, Marek Nemčovič, Filip Květoň, Filip Pančík, Pavol Janega, Peter Baráth, Jaroslav Katrlík*
- 15:20-15:40** OP18 STEREOSELECTIVE SYNTHESIS OF 1,2-CIS- $\alpha$ -THIOGLYCOSIDES BY TWO SEQUENTIAL PHOTOINITIATED THIOL-ENE ADDITIONS  
*Viktor Kelemen, Nóra Debreczeni, Miklós Bege, Anikó Borbás*
- 15:45-17:15** Poster Session 2 (P20-P39)
- 17:30** Farewell Party (incl. Poster award)

## Friday 24.6.2022

- 7:30-9:00** Breakfast
- 9:00-9:20** OP19 QUATERNARY AMMONIUM CHITOSAN SALTS: IDENTIFICATION OF UNEXPECTED COUNTERION EXCHANGE IN AQUEOUS ENVIRONMENT  
*Abolfazl Heydari, Eva Dušička, Matej Mičušík, Marian Sedlák, Igor Lacík*
- 9:20-9:40** OP20 IN PLANTA ENGINEERING OF KDNYLATED GLYCOPROTEINS  
*Somanath Kallolimath, Roman Palt, Clemens Grünwald-Gruber, Herta Steinkellner*
- 9:40-10:00** OP21 NOVEL DIMENSIONS OF THE MOST FUNDAMENTAL REACTION OF REDUCING SUGARS  
*Ladislav Petruš, Božena Pribulová, Hana Kováčová, Mária Petrušová*
- 10:00-10:10** FP10 PREPARATION OF HALF-SANDWICH TYPE PLATINUM-GROUP METAL COMPLEXES WITH GLUCOSAMINYL HETEROCYCLIC LIGANDS  
*István Kacsir, Adrienn Sipos, Péter Buglyó, Péter Bai, László Somsák, Éva Bokor*
- 10:10-10:20** FP11 ANALYSIS OF GLYCAN CHANGES IN GESTATIONAL DIABETES MELLITUS  
*Lucia Pažitná, Kristína Kianičková, Paras Kundalia, Zorana Dobrijević, Nikola Gligorijević, Goran Miljuš, Ana Penezić, Dragana Robajac, Miloš Šunderić, Olgica Nedić, Vesna Mandić Marković, Ognjen Radojičić, Željko Miković, Jaroslav Katrlík*
- 10:20-10:30** FP12 POLYSACCHARIDE-BASED POLYELECTROLYTES AS BIOCOMPATIBLE IMMOBILIZATION MATRICES FOR WHOLE-CELL BIOCATALYSTS OF ENZYME CASCADE REACTIONS  
*Marek Bučko, Peter Gemeiner*
- 10:30-10:35** Closing Ceremony  
*Jaroslav Katrlík*
- 10:45-11:45** Lunch
- 12:00** Bus departure to Bratislava (Expected arrival to Bratislava at 13:30 h)

## List of Posters

<b>P1</b>	<p>GLYCOPROFILING OF PATIENT WITH MUTATION IN <i>SLC35A2</i> GENE  <i>Rebeka Kodríková, Marek Nemčovič, Zuzana Pakanová, Maroš Krchňák, Anna Šalingová, Peter Baráth, Ján Mucha</i></p>
<b>P2</b>	<p>ALPHA-MANNOSIDOSIS ENZYME REPLACEMENT THERAPY MONITORING BY HPLC-FLD AND MALDI-TOF/TOF  <i>Maroš Krchňák, Zuzana Pakanová, Marek Nemčovič, Rebeka Kodríková, Anna Šalingová, Anna Hlavatá, Peter Baráth, Ján Mucha</i></p>
<b>P3</b>	<p>ARYLDIAZONIUM BETAINE DERIVATIVES PATTERNING OF <math>Ti_3C_2Tx</math> MXENE INTERFACES FOR BREAST CANCER BIOMARKER DETECTION  <i>Lenka Lorencová, Veronika Pinková Gajdošová, Peter Kasák, Ján Tkáč</i></p>
<b>P4</b>	<p>SYNTHESIS OF SYNTHETIC LIPID-LINKED OLIGOSACCHARIDES FOR IN-VITRO GLYCOENGINEERING OF PROTEINS BY A CELL-FREE, COMPARTMENTALIZED MULTI-ENZYME CASCADE  <i>Lisa Wenzel, Johannes Ruhnu, Thomas Rexer, Udo Reichl</i></p>
<b>P5</b>	<p>NOVEL APPROACHES IN BIOCATALYSIS WITH IMMOBILIZED VIABLE WHOLE CELLS: FOCUS ON MULTIENZYMATIC PROCESSES INVOLVING BAEYER-VILLIGER MONOOXYGENASES  <i>Štefánia Hrončeková, Marek Bučko, Peter Gemeiner</i></p>
<b>P6</b>	<p>STRUCTURAL CHANGES OF ENZYMATICALLY TREATED RHAMNOGALACTURONAN I RICH FRACTION OF PECTIN  <i>Adrianna Kaczmarek, Piotr M. Pieczywek, Justyna Cybulska, Artur Zdunek</i></p>
<b>P7</b>	<p>THE CHEMICAL STRUCTURE OF O-POLYSACCHARIDE ISOLATED FROM PECTYNOLITIC BACTERIUM <i>DICKEYA AQUATICA</i> IFB0154  <i>Agnieszka Kowalczyk, Nikola Szpakowska, Wojciech Sledz, Agata Motyka-Pomagruk, Karolina Ossowska, Ewa Lojkowska, Zbigniew Kaczyński</i></p>
<b>P8</b>	<p>SWEET SECRET OF DRUG-RESISTANCE IN TESTICULAR CANCER TREATMENT  <i>Michal Híreš, Eduard Jáné, Michal Mego, Michal Chovanec, Katarína Hainová, Peter Kasák, Tomáš Bertók, Ján Tkáč</i></p>
<b>P9</b>	<p>IDENTIFICATION AND CHARACTERISATION OF THE FIRST MOLLUSC CORE 1 <math>\beta</math>1,3-GALACTOSYLTRANSFERASE  <i>Marilica Zemkollari, Reingard Grabherr, Erika Staudache</i></p>
<b>P10</b>	<p>THE CHEMICAL STRUCTURES OF BIOACTIVE POLYSACCHARIDES ISOLATED FROM <i>SPARASSIS CRISPA</i>  <i>Nikola Szpakowska, Agnieszka Kowalczyk, Natalia Nowacka-Jechalke, Renata Nowak, Marta Kinga Lemieszek, Zbigniew Kaczyński</i></p>
<b>P11</b>	<p>O-METHYLATED N-GLYCANS OF MOSSES</p>



	<i>David Stenitzer, Réka Mócsai, Harald Zechmeister, Ralf Reski, Eva L. Decker, Friedrich Altmann</i>
<b>P12</b>	ANTI-STAPHYLOCOCCAL ACTIVITY OF QUATERNIZED DEXTRAN – EFFECT OF MOLAR MASS AND DEGREE OF QUATERNIZATION <i>Romana Vrzoňová, Alžbeta Čížová, Lucia Račková, Jana Mečárová, Sandra Bieliková, Slavomír Bystrický</i>
<b>P13</b>	SYNTHESIS OF FLUORINATED N,N-DIACETYLLACTOSAMINES <i>Jindřich Karban, Martin Kurfírt, Vojtěch Hamala</i>
<b>P14</b>	PHARMACOKINETIC OF INTRAVENOUSLY DELIVERED HYALURONAN OF DIFFERENT MOLECULAR WEIGHT <i>Matěj Šimek, Kristina Nešporová, Anna Kocurková, Tereza Foglová, Gabriela Ambrožová, Vladimír Velebný, Martina Hermannová, Lukáš Kubala</i>
<b>P15</b>	EXPRESSION AND CHARACTERIZATION OF A $\beta$ -GALACTOSIDASE FROM <i>ARION VULGARIS</i> <i>Julia Thoma, Reingard Grabherr, Erika Staudacher</i>
<b>P16</b>	DIAGNOSTICS OF CANCER BY DETERMINATION OF ABBERANT GLYCANS <i>Veronika Vráblová, Anna Blšáková, Ján Tkáč</i>
<b>P17</b>	ELECTROCHEMICAL ANALYSIS OF GALECTINS AT THE CHARGED SURFACES <i>Tatiana Galicová, Hana Černocká, Veronika Ostatná</i>
<b>P18</b>	STRUCTURAL DIVERSITY OF PECTIC POLYSACCHARIDES FROM DIFFERENT PLANT SOURCES <i>Zuzana Košťálová, Peter Capek</i>
<b>P19</b>	STANDARDIZED GRAPHITIC CARBON CHROMATOGRAPHY COUPLED WITH MS ENABLES ISOMER SPECIFIC N-GLYCOMICS <i>Johannes Helm, Friedrich Altmann</i>
<b>P20</b>	THE CHANGES IN THE MAIZE ROOT CELL WALL COMPOSITION UNDER CADMIUM STRESS AFTER AUXIN APPLICATION <i>Kristína Šípošová, Eva Labancová, Diana Hačkuličová, Karin Kollárová, Zuzana Vivodová</i>
<b>P21</b>	GALACTOGLUCOMANNAN OLIGOSACCHARIDES AFFECT THE VIABILITY AND CELL WALL REGENERATION OF MAIZE PROTOPLASTS <i>Diana Hačkuličová, Eva Labancová, Kristína Šípošová, Karin Kollárová</i>
<b>P22</b>	GALACTOGLUCOMANNAN OLIGOSACCHARIDES ALLEVIATE CADMIUM TOXICITY BY IMPROVING VARIOUS PHYSIOLOGICAL CHARACTERISTICS IN MAIZE PLANTS

	<i>Zuzana Vivodová, Diana Hačkuličková, Michaela Bačovčinová, Kristína Šípošová, Eva Labancová, <u>Karin Kollárová</u></i>
<b>P23</b>	EXOPOLYGALACTURONASES OF <i>DAUCUS CAROTA</i> – CHARACTERIZATION OF A0A161ZKU8_DAUCS PROTEIN <i>Barbora Stratilová, Stanislav Kozmon, Sergej Šesták, Eva Stratilová</i>
<b>P24</b>	THE FUNCTION OF POSITIVELY CHARGED C-TERMINAL AMINO ACID RESIDUES IN HETEROTRANGLYCOSYLATING ACTIVITIES OF XYLOGLUCAN ENDOTRANGLYCOSYLASES <i>Stanislav Kozmon, Barbora Stratilová, Sergej Šesták, Eva Stratilová</i>
<b>P25</b>	PHOSPHATE BUFFER-CATALYZED KINETICS OF MUTAROTATION OF GLUCOSAMINE INVESTIGATED BY NMR SPECTROSCOPY <i>Gil Navon, Michal Rivlin</i>
<b>P26</b>	VARIABILITY OF THE DEGREE OF SERUM IGG SIALYLATION AND GALACTOSYLATION IN PATIENTS WITH SARS-COV-2 INFECTION <i>Izabela Kokot, Katarzyna Solkiewicz, Violetta Dymicka-Piekarska, <u>Ewa Maria Kratz</u></i>
<b>P27</b>	THE CHANGES OF O-GLYCOSYLATION AND THE EXPRESSION OF HIGHLY-BRANCHED N-GLYCANS IN SERUM IMMUNOGLOBULIN G IN ADVANCED ENDOMETRIOSIS <i>Katarzyna Solkiewicz, Monika Kacperczyk, Hubert Krotkiewski, Marcin Jędryka, Ewa Maria Kratz</i>
<b>P28</b>	THE POSSIBLE ASSOCIATION OF CLUSTERIN CONCENTRATION AND ITS GLYCOSYLATION CHANGES WITH RHEUMATOID ARTHRITIS AND PSORIATIC ARTHRITIS <i>Monika Kacperczyk, Izabela Kokot, Renata Sokolik, Piotr Wiland, <u>Ewa Maria Kratz</u></i>
<b>P29</b>	COMPARISON OF DIFFERENT SERUM GLYCANS MODIFICATION <i>Filip Květoň, Filip Pančík, Zuzana Pakanová, Marek Nemčovič, Peter Baráth</i>
<b>P30</b>	ISOLATION AND STRUCTURE OF WATER SOLUBLE POLYSACCHARIDE FROM FRUITING BODIES OF <i>Ganoderma lingzhi</i> <i>Andrej Sinica, Roman Bleha, Leonid Sushytskyi, Anastasiya Skrinnikova, Petra Smrčková, Peter Capek, Radek Pohl, Ivan Jablonsky, Pavel Klouček</i>
<b>P31</b>	A CELL-FREE BIOSYNTHESIS PLATFORM FOR PRODUCTION OF FLUORESCENCE LECTINS <i>Seonghun Kim</i>
<b>P32</b>	DEFINING CANDIDATES FOR ANTIGENIC COMPONENTS OF A CONJUGATE VACCINE AGAINST THE DISEASE CAUSED BY <i>VIBRIO CHOLERA</i> E O139 <i>Pavol Kováč, Mohammad Kamruzzaman, Meagan Kelly, Richelle C. Charles, Jason B. Harris, Stephen B. Calderwood, Aklima Akter, Rajib Biswas, M. Hasanul Kaiser, Taufiqur R. Bhuiyan, Louise C. Ivers, Ralph Ternier, Jean-Gregory</i>

	<i>Jerome, H�elene B. Pfister, Xiaowei Lu, Sameh E. Soliman, Bart Ruttens, Rina Saksena, Robert D. O'Connor, Jana Me�arov�a, Al�zbeta �i�zov�a, Firdausi Qadri, Slavom�r Bystrick�y, Peng Xu, Edward T. Ryan</i>
<b>P33</b>	AROMASE <sup>TM</sup> H2 AS A SOURCE OF RARE DIGLYCOSIDASE ACTIVITIES <i>Peter Haluz, Peter Kis, M�ria Mastihubov�a, Vladim�r Mastihuba</i>
<b>P34</b>	ELECTROCHEMICAL LECTIN-BASED BIOSENSOR PLATFORM FOR SENSITIVE DETECTION OF CANCER BIOMARKERS <i>Juvissa Aguedo, Lenka Lorencov�a, Peter Kas�k, J�n Tk��</i>
<b>P35</b>	EFFECT OF N-ACETYL CHITOOLIGOSACCHARIDES ON THE STRUCTURE AND BIOSYNTHESIS OF CHITIN IN YEAST <i>�gnes Horv�thov�a, Vladim�r Farka�</i>
<b>P36</b>	CATALYST-FREE COUPLING REACTIONS FOR THE SYNTHESIS OF C-(�-D-GLYCOPYRANOSYL)METHYL-TRIAZOLES, -TETRAZOLES AND ALKYL/ARYL SUBSTITUTED TETRAZOLES <i>Timea Kasz�s, Bence Szak�cs, �va Juh�sz-T�th, Ivett Cservedny�k, Tamara Kov�cs, Istv�n Tim�ri, L�szl� Juh�sz, L�szl� Soms�k, Marietta T�th</i>
<b>P37</b>	UNEXPECTED REACTIONS OF N-(2,3,4,6-TETRA-O-ACYL-�-D-GLYCOPYRANOSYLCARBONYL)-N'-TOSYLHYDRAZINES WITH N-, O-NUCLEOPHILES <i>�va Juh�sz-T�th, Timea Kasz�s, Mariann Kiss, Imre Ign�th, Zwivhuya Phoebe Mudau, L�szl� Soms�k, Marietta T�th</i>
<b>P38</b>	LECTIN-BASED MICROARRAY AND MALDI-TOF-MS APPROACHES IN STUDY OF GLYCAN CHANGES IN ADHD <i>Krist�na Kiani�kov�a, Lucia Pa�itn�a, Paras Kundalia, Zuzana Pakanov�a, Marek Nem�ovi�, Peter Bar�th, Eva Katrl�kov�a, J�n �uba, Jana Trebatick�a, Jaroslav Katrl�k</i>
<b>P39</b>	STUDY OF N-GLYCAN SHIELD OF SARS-COV-2 SPIKE GLYCOPROTEIN <i>Jaroslav Katrl�k, Lucia Pa�itn�a, Paras Kundalia, Krist�na Kiani�kov�a, Marek Nem�ovi�, Peter Bar�th, Zuzana Pakanov�a</i>