

# GLYCO<sup>23</sup>

## 23rd INTERNATIONAL SYMPOSIUM ON GLYCOCONJUGATES

September 15–20, 2015

Hotel „Le Méridien Lav“, Split, Croatia

### POSTER SESSIONS

#### POSTER SESSION I

*Posters should be installed on the panels numbered according to the following schedule, and during designated times*

Day & time of installing : **Wednesday, September 16th, before 11:00**

Day & time of dismantling : **Thursday, September 17th, after 19:00**

PANEL NO.	Section
	<b>Animal Lectins</b>
1	Abstract 18 : <u>Yoshihiro Akimoto</u> , Hajime Sakakita, Sanae Ikehara, Takashi Yamaguchi, Jaeho Kim, Yuzuru Ikehara; Title: Effect of low temperature plasma on the expression of galectins in wound healing skin
2	Abstract 19 : <u>Yuki Fujii</u> , Toshiyuki Fujiwara, Yukiko Ogawa, Shigeki Sugawara, Intiaj Hasan, Yasuhiro Koide, Kawsar Sarkar, Yasuhiro Ozeki, Hideki Fujita ; Title: A novel <i>N</i> -acetylhexosamine-binding lectin from slipper lobster caused apoptosis and endocytosis against cancer cells
3	Abstract 20 : <u>Jonas Hanske</u> , Matevz Rumpret, Ryan McBride, Jessica Schulze, Jonas Aretz, Henrik Schmidt, Yuriy Knirel, James C. Paulson, Nina M. van Sorge, Christoph Rademacher; Title: Murine and human Langerin do not share specificity for bacterial glycans
4	Abstract 21 : <u>Masahiro Hosono</u> , Hiroaki Masuzaki, Takeo Tatsuta, Shigeki Sugawara; Title: Expression and characterization of recombinant rhamnose-binding lectin with novel domain structure
5	Abstract 22 : <u>Ian David Young</u> , Alexandra Wittmann, Chris Lawson, Norihito Kawasaki ; Title: A food polysaccharide inulin is a novel carbohydrate ligand of Dectin-2
6	Abstract L2 : <u>Jonas Elmwall</u> , Jakub Kwiecinski, Veronica Osla, Lindsey Shaw, Elisabet Josefsson, Johan Bylund, Tao Jin, Amanda Welin, Anna Karlsson; Title: Human galectin-3 is sensitive to proteases from virulent <i>Staphylococcus aureus</i>
7	Abstract L3 : <u>Marko Jovanović</u> , Ulf Jörgen Nilsson, Hakon Leffler, Jasna Peter-Katalinić; Title: Applicability of ESI MS for screening of galectin-3C affinity data for carbohydrates
8	Abstract L4 : <u>Marko Jovanović</u> , Ulf Jörgen Nilsson, Hakon Leffler, Jasna Peter-Katalinić; Title: Applicability of tandem MS experiments for study of galectin-3C-carbohydrate non-covalent complexes

9	Abstract <b>L5</b> : <u>Hyeok-Gu Kang</u> , Seok-Jun Kim, Hee-Sae Park, Kyung-Hee Chun; Title: Galectin-3 regulates the cancer stemness by modulating the NOTCH1 intracellular domain level in ovarian cancer
10	Abstract <b>L6</b> : <u>Seok-Jun Kim</u> , Hyun-Woo Lee, Hyeok Gu Kang, Kyung-Hee Chun; Title: WNT signaling progresses gastric tumorigenesis by galectin-3 mediated STAT3 activation
11	Abstract <b>L7</b> : <u>Ye-Seal Yim</u> , Seok-Jun Kim, Kyung-Hee Chun; Title: Galectin-1 as potent regulator of stemness properties in gastric cancer cells
<b>Biosynthesis and Metabolism of Glycoconjugates</b>	
12	Abstract <b>29</b> : <u>Jun-ichi Aikawa</u> , Yoichi Takeda, Akira Seko, Ichiro Matsuo, Yukishige Ito ; Title: ER $\alpha$ -1,2-mannosidase I; studies of the structure and function by site-directed mutagenesis
13	Abstract <b>30</b> : <u>Mana Fujikawa</u> , Megumi Maeda, Chihiro Matsumaru, Shouehi Murata, Ryo Masaki, Kazuhito Fujiyama, Yoshinobu Kimura ; Title: Cloning and expression analysis of acidic peptide: <i>N</i> -glycanase genes in <i>Solanum lycopersicum</i>
14	Abstract <b>31</b> : <u>Satsuki Itano</u> , Megumi Maeda , Yoshinobu Kimura; Title: Purification and characterization of <i>Ginkgo biloba</i> $\alpha$ -1,3/4-fucosidase ( $\alpha$ -Fuc'ase Gb) active against Lewis a antigen
15	Abstract <b>32</b> : <u>Radoslaw Kaczmarek</u> , Maria Duk , Katarzyna Szymczak, Paweł Nocen, Ewa Jaskiewicz, Marcin Czerwinski ; Title: Human $\alpha$ -1,4-galactosyltransferase (GB3/CD77 synthase): how one amino acid residue may drive promiscuity of a glycosyltransferase
16	Abstract <b>33</b> : <u>Toshihiko Kitajima</u> , Yuanling Jia, Xiaodong Gao, Yasunori Chiba ; Title: Site-directed mutagenesis study of Endo- $\beta$ -Nacetylglucosaminidase from <i>Ogataea minuta</i>
17	Abstract <b>34</b> : <u>Marie-Estelle Losfeld</u> , Chia-Wei Lin, Ivan Hang, Robert Gauss, Markus Aebi; Title: Is site specific glycan microheterogeneity driven by the glycoprotein itself?
18	Abstract <b>35</b> : <u>Huong Nguyen</u> , Vito Ferro ; Title: Synthesis of steroid conjugates for targeted liposomal delivery of RNA-based therapies
19	Abstract <b>36</b> : <u>Sonia Serna</u> , Carlos López de Laorden, Niels-Christian Reichardt; Title: Detection of glycosyl hydrolase activity on glycan microarrays by MALDI-TOF
20	Abstract <b>37</b> : Christopher Taus, Markus Windwarder, Martin Dragosits, Friedrich Altmann, Reingard Grabherr, <u>Erika Staudacher</u> ; Title: Specificity and structural aspects of UDP- <i>N</i> -acetyl- $\alpha$ -D-galactosamine : polypeptide- <i>N</i> -acetylgalactosaminyltransferase from the snail <i>Biomphalaria glabrata</i>
21	Abstract <b>L8</b> : Zhongying Xiao, Yuxi Guo, <u>Peng George Wang</u> ; Title: Chemoenzymatic synthesis of human milk oligosaccharides
<b>Cell Biology of Protein Glycosylation</b>	
22	Abstract <b>42</b> : <u>Emese Kátai</u> , Viktória Fisi, Tamás Takács, Attila Miseta, Tamás Nagy; Title: <i>O</i> -GlcNAc is increased in white blood cells after moderate physical exercise
23	Abstract <b>43</b> : <u>Sawako Okamoto</u> , Shiho Uematsu, Takehiro Suzuki, Yuki Niwa, Yukiko Sasazawa, Naoshi Dohmae, Siro Simizu; Title: Lipoprotein lipase is glycosylated at TRP417
24	Abstract <b>44</b> : <u>Kei Otani</u> , Natsumi Sato, Takehiro Suzuki, Yuki Niwa, Yukiko Sasazawa, Naoshi Dohmae, Siro Simizu; Title: Glycosylation of granulocyte colony-stimulating factor receptor
25	Abstract <b>45</b> : <u>Natsumi Sato</u> , Yukiko Sasazawa, Takehiro Suzuki, Naoshi Dohmae, Siro Simizu; Title: Glycosylation of C-MPL affects JAK/STAT signaling pathway
26	Abstract <b>46</b> : <u>Siro Simizu</u> , Miho Fujiwara, Yuki Niwa, Takehiro Suzuki, Yukiko Sasazawa, Naoshi Dohmae; Title: Glycosylation of R-spondin3 promotes its secretion and activates WNT/ $\beta$ -catenin signaling pathway

<b>Comparative and Evolutionary Glycobiology</b>	
27	Abstract <b>50</b> : <u>Hisao Kojima</u> , Takayoshi Tomono, Masahiro Ito ; Title: Glycosyltransferase evolution – a view from the search for ascidian glycosphingolipids
28	Abstract <b>51</b> : <u>Tadasu Urashima</u> , Saori Fujita, Michael Messer; Title: Chemical characterization of milk oligosaccharides of the common brushtail possum
29	Abstract <b>52</b> : <u>Elizaveta Vdovichenko</u> , Rimma Vysotskaya; Title: Evolutionary studies of lysosomal $\beta$ -glycosyl hydrolases in various aquatic organisms
30	Abstract <b>L9</b> : <u>Hendrik Grootaert</u> , Linde Van Landuyt, Nico Callewaert; Title: De-orphaning glycoside hydrolase family 29 using a representative subfamily
<b>Developmental and Stem Cell Glycobiology</b>	
31	Abstract <b>60</b> : <u>Michelle Bond</u> , John Hanover; Title: <i>O</i> -GlcNAc transferase is required for fidelity in developmental patterning
32	Abstract <b>61</b> : <u>Bo Fu</u> , DiWu, Chihiro Sato, Ken Kitajima; Title: Catabolism of sialic acid residues during pre-hatching development of medaka embryos
33	Abstract <b>62</b> : Yuki Shibazaki, <u>Kiyoshi Furukawa</u> ; Title: <i>N</i> -glycosylation changes in the regeneration buds of planarian
34	Abstract <b>63</b> : <u>Yoshinao Z. Hosaka</u> , Tatsuaki Kondo, Jun-ichi Tamura; Title: Diamond squid ( <i>Thysanoteuthis rhombus</i> )-derived chondroitin sulfate inhibits osteoclast differentiation and bone resorption activity, and promotes bone formation
35	Abstract <b>64</b> : Yoshiaki Nakayama, Naosuke Nakamura, <u>Akira Kurosaka</u> ; Title: Analysis of zebra fish polypeptide <i>N</i> -acetylgalactosaminyltransferase genes during embryonic development
36	Abstract <b>65</b> : <u>Di Wu</u> , Akiko Fujita, Yuko Yasukawa, Yoshihito Taniguchi, Yasuhiro Kamei, Chihiro Sato, Ken Kitajima; Title: Sufficient provision of CMP-Sialic acid is necessary for growth and development of medaka fish
37	Abstract <b>L10</b> : <u>Moriah Eustice</u> , John Hanover; Title: <i>O</i> -GlcNAc cycling acts in coordination with fatty acid beta-oxidation to regulate ARD entry in <i>C. elegans</i>
38	Abstract <b>L11</b> : <u>Stephanie Olivier-Van Stichelen</u> , Peng Wang, John Hanover; Title: <i>O</i> -GlcNAc, diet and development
39	Abstract <b>L12</b> : <u>Hiroaki Tateno</u> , Yasuko Onuma, Yuzuru Ito, Makoto Asashima, Jun Hirabayashi; Title: Elimination of tumorigenic human pluripotent stem cells using a recombinant lectin-toxin fusion protein
<b>General Glycoscience</b>	
40	Abstract <b>70</b> : <u>Ivona Bečeheli</u> , Tomislav Horvat, Petra Korać, Vlatka Zoldoš, Gordan Lauc; Title: Epigenetic silencing of HNF1a modifies glycosylation
41	Abstract <b>71</b> : <u>Cornelia Hojnik</u> , Tobias-Elias Gloe, Thisbe K. Lindhorst, Michael Schalli, Arnold E. Stütz, Martin Thonhofer, Tanja M. Wrodnigg, Manuel Zoidl; Title: The Amadori rearrangement: a versatile reaction for the synthesis of neoglycoconjugates
42	Abstract <b>72</b> : <u>Marija Klasić</u> , Jasminka Krištić, Vanja Tadić, Dora Markulin, Paula Dobrinić, Petra Korać, Gordan Lauc, Vlatka Zoldoš; Title: Epigenetic modulation of <i>N</i> -glycome from HepG2 cells
43	Abstract <b>73</b> : <u>Tomoya Machinami</u> , Daisuke Miura, Masakazu Baba, Ayumi Tsutsui, Takashi Fujimoto; Title: Enantioselective synthesis of spiroacetal from aldose via tandem asymmetric aldol-aldol reaction
44	Abstract <b>74</b> : <u>Ivana Samaržija</u> , Aleksandar Vojta, Vlatka Zoldoš; Title: Aberrant methylation and expression of glyco-genes in cancer
45	Abstract <b>75</b> : <u>Irena Trbojević Akmačić</u> , Malena Albers, Maja Pučić Baković, Urška Vidič, Jana Vidič, Urh Černigoj, Gordan Lauc; Title: Semi-high-throughput isolation and <i>N</i> -glycan

	analysis of human fibrinogen
46	Abstract <b>76</b> : <a href="#">Ivo Ugrina</a> , Irena Trbojević Akmačić, Jerko Štambuk, Ivan Gudelj, Maja Pučić Baković; Title: Exploring the stability of IgG and plasma glycosylation within healthy individuals
47	Abstract <b>77</b> : <a href="#">Liudmyla Varbanets</a> , Evelina Zdrovenko, Tanya Bulygina; Title: Lipopolysaccharides of <i>Pseudomonas chlororaphis</i> and <i>Pantoea agglomerans</i> : chemical characterization and biological activity
48	Abstract <b>78</b> : <a href="#">Dmitriy Vinnitsky</a> , Vadim Krylov, Nadezhda Ustyuzhanina, Nikolay Nifantiev; Title: Synthesis of the pentasaccharides related to the fucoidan from the seaweeds <i>Chordaria flagelliformis</i>
49	Abstract <b>79</b> : Umakhanth Venkatraman Girija, Christopher M. Furze, Alexandre R. Gingras, Takayuki Yoshizaki, Katsuki Ohtani, Jamie E. Marshall, Katrine Wallis, Wilhelm J. Schwaeble, Mohammed El-Mezgueldi, Daniel A. Mitchell, Peter C. E. Moody, <a href="#">Nobutaka Wakamiya</a> , Russell Wallis; Title: Molecular basis of sugar recognition by CI-K1 and the effects of mutations associated with 3MC syndrome
50	Abstract <b>80</b> : <a href="#">Tanja M. Wrodnigg</a> ; Title: The Amadori rearrangement as key step for the synthesis of biologically relevant C-glycosyl type neoglycoconjugates
51	Abstract <b>81</b> : <a href="#">Renaud Zelli</a> , Eline Bartolami, Jean-François Longevial, Yannick Bessin, Pascal Dumy, Alberto Marra, Sébastien Ulrich; Title: Peptide-based iminosugar clusters: metal-free synthesis by oxime ligation and glycosidase inhibition activity
52	Abstract <b>82</b> : Aidong Shan, Xing Li, Zhijue Xu, Yingjiao Xu, Wei Li, <a href="#">Yan Zhang</a> ; Title: Novel functions of UDP-GalNAc: polypeptide N-acetylgalactosaminyltransferase 18 (PPGalNAc-T18): regulation of protein O-GalNAc glycosylation in endoplasmic reticulum (ER) and that is essential for cell survival
53	Abstract <b>83</b> : <a href="#">Rafał Ziewiecki</a> , Izabela Pawlaczyk, Hubert Krotkiewski, Roman Gancarz; Title: The mechanism of anticoagulant activity of glycoconjugate isolated from <i>Echinacae purpurea L.</i>
54	Abstract <b>L13</b> : Po-Chiao Chang, Ming-Tsai Chiang, Kuo-I Lin, Fu-Tong Liu, <a href="#">Lee-Young Chau</a> ; Title: Galectin-1 modulates platelet-derived growth factor-induced vascular smooth muscle cell phenotypic change and neointimal formation
55	Abstract <b>L14</b> : <a href="#">Mads H. Clausen</a> , Julia Schückel, Stjepan K. Kracun, William G. T. Willats; Title: High-throughput screening of endo-glycoside hydrolases using novel chromogenic polysaccharide substrates
56	Abstract <b>L15</b> : <a href="#">Radoslaw P. Kozak</a> , Katherine Wongtrakul-Kish, Christopher Williams, Daryl L. Fernandes, Samirah Perally, Claire Rose, Daniel I.R. Spencer, Alvaro Acosta-Serrano; Title: Investigating the role of insect vector glycosylation in african sleeping sickness transmission: characterisation of procainamide-labelled tsetse fly saliva N-glycans
57	Abstract <b>L16</b> : <a href="#">Zhihua Lv</a> , Yuanhong Wang, Jie Yang, Lv Lv, Qun Gao, Tingfu Jiang, Haihua Li; Title: <i>In vivo</i> and <i>in vitro</i> anticoagulant and antithrombus activities of different molecular weight glycosaminoglycans from sea cucumber <i>Apostichopus japonicus</i>
58	Abstract <b>L17</b> : <a href="#">Baptiste Thomas</a> , Christopher Gray, Antonio Sánchez-Ruiz, Santanu Mandal, Juana Reyes-Martínez, Hannah Roberts, Sabine Flitsch; Title: Label-free discovery array platform to study effects of neighbouring glycans on carbohydrate-lectin interaction
59	Abstract <b>L18</b> : Matthew A. Lauber, Darryl W. Brousmiche, Zhengmao Hua, Stephan M. Koza, Ellen Guthrie, Paula Magnelli, Christopher H. Taron, Kenneth J. Fountain, <a href="#">Marleen van Wingerden</a> ; Title: Rapid preparation of N-glycans using a novel fluorescence and MS active labeling reagent

60	Abstract <b>L19</b> : Matthew A. Lauber, Scott A. McCall, Bonnie A. Alden, Pamela C. Iraneta, Stephan M. Koza, <u>Marleen van Wingerden</u> ; Title: Wide-pore amide HILIC separations for assaying the domain-specific glycosylation of mAbs
61	Abstract <b>L20</b> : <u>Peng Wang</u> , Baojie Li, Ming Li; Title: Synthesis of furostanol saponins and their $\alpha$ -glucosidase inhibitory activities
62	Abstract <b>L21</b> : <u>Liuqing Wen</u> , Kenneth Huang, Mohui Wei, Jeffrey Meisner, Yunpeng Liu, Kristina Garner, Lanlan Zang, Junqiang Fang, Xu Li, Peng George Wang; Title: Facile enzymatic synthesis of ketoses

## POSTER SESSION II

Posters should be installed on the panels numbered according to the following schedule, and during designated times.

Day & time of installing : **Wednesday, September 16th, before 11:00**

Day & time of dismantling : **Thursday, September 17th, after 19:00**

PANEL NO.	Section
	<b>Glycans and cancer</b>
63	Abstract <b>98</b> : <u>Mylène Carrascal</u> , Isabel Serrano, Paula Videira; Title: E-selectin ligands in breast cancer cells
64	Abstract <b>99</b> : <u>Jung-Tsu Chen</u> , Ko-LiKu, Chein-Hung Chen, Michael Hsiao, Chun-Pin Chiang, Tsui-Ling Hsu, Min-Huey Chen, Chi-Huey Wong; Title: Glycoprotein B7-H3 as a marker for oral cancer: overexpression and aberrant glycosylation in tumor growth and immune response
65	Abstract <b>100</b> : <u>Ji Won Choi</u> , Jisun Lee, Chang Won Lee, Juhee Shin, Yong Il Park; Title: A water-soluble polysaccharide isolated from <i>Capsosiphon fulvescens</i> inhibits the growth of HT-29 human colon cancer cells via induction of apoptosis in xenograft tumor
66	Abstract <b>101</b> : <u>Matthew S. F. Choo</u> , Brian Liao, Andre B. H. Choo, Stuart Haslam, Anne Dell; Title: Mass spectrometric characterisation of oncofetal glycan epitopes displayed on polylactosamines in ovarian cancer
67	Abstract <b>102</b> : <u>Kan Ding</u> , Wenfeng Liao, Hailing Liu; Title: The mechanism underlying anti-cancer bioactivity of natural glycans
68	Abstract <b>103</b> : <u>Daniela P. Freitas</u> , Ana Magalhães, Diana Campos, Joana Gomes, Henrik Clausen, Celso A. Reis; Title: Biological impact of simple O-glycans in gastric cancer using glycoengineered cells
69	Abstract <b>104</b> : <u>Catarina Gomes</u> , Ana Barreira, Hugo Osório, Celso A. Reis; Title: Identification of SLeX expressing proteins in gastric carcinoma: possible role in cancer cell invasion and metastasis
70	Abstract <b>105</b> : <u>Kiyoko Hirano</u> , Akio Matsuda, Ryo Kuji, Shiro Nakandakari, Takashi Shirai, Kiyoshi Furukawa; Title: Enhanced expression of the $\beta$ -4-N-acetylgalactosaminyltransferase 4 gene impairs tumor growth of human breast cancer cells
71	Abstract <b>106</b> : <u>Hiroko Ideo</u> , YujiHinode, Kohei Sakai, IkueHoshi, Shigeru Yamamoto, Masaaki Oka, Kazunari Maeda, Noriko Maeda, Shoichi Hazama, Junko Amano, Katsuko Yamashita; Title: Detection of mucin 1 possessing a 3'-sulfated core1 in recurrent and metastatic breast cancer
72	Abstract <b>107</b> : <u>Sampath Katakam</u> , Burkhard Greve, Rolland Reinbold, Martin Götte ; Title: Role of Sdc1 in the tumorigenicity of the stem cell-like subpopulation within colon cancer cell lines

73	Abstract 108 : <a href="#">Anna-Katharina Kurze</a> , Klaus Bendrat, Kay Friedrichs, Christoph Lindner, Axel Niendorf, Peter Nollau, Christoph Wagener; Title: The C-type lectin CLEC10A specifically recognizes glycoproteins in primary breast cancer relevant for prognosis
74	Abstract 109 : <a href="#">Jua Lee</a> , Serenus Hua, Sung-Hyeon Lee, Myung Jin Oh, Jung Hoe Kim, Jae Han Kim, Hyun Joo An; Title: Glycosite-specific biomarker discovery for gastrointestinal (GI) cancers via targeted glycoproteomic analysis of serum haptoglobin
75	Abstract 110 : <a href="#">Tianhua Liu</a> , Shu Zhang, Kun Guo, Yinkun Liu; Title: The alteration of protein glycosylation profiles of hepatocellular carcinoma cells treated with sorafenib
76	Abstract 111 : <a href="#">Yinkun Liu</a> , Qinle Zhang, Shu Zhang, Tianhua Liu, Kun Guo; Title: Histidine-rich glycoprotein regulating cell proliferation by inhibiting ERK1/2 phosphorylation and depending on its <i>N</i> -glycosylation status in hepatocellular carcinoma
77	Abstract 112 : <a href="#">Liliana Loureiro</a> , Carlos Novo, Paula Videira; Title: Therapeutic antibodies for the treatment of STn expressing cancer cells
78	Abstract 113 : <a href="#">Angela Mastelić</a> , Vedrana Čikeš-Čulić, Nikolina Režić-Mužinić, Milena Vuica-Ross, Ashley Ross, David Barker, Jóhannes Reynisson, Anita Markotić; Title: Glycophenotype of breast cancer stem cells treated with glucosylceramide synthase and phospholipase C-gamma 2 inhibitors
79	Abstract 114 : <a href="#">Virginia Tajadura</a> , Gennaro Gambardella, Francesca Ciccarelli, Joyce Taylor-Papadimitriou, Joy Burchell; Title: Does aberrant <i>O</i> -glycosylation affect the function of MUC1 and osteopontin during tumour progression?
80	Abstract 115 : <a href="#">Archana Vijaya Kumar</a> ; Title: Differential role for HS3ST2 in modulating breast cancer cell invasiveness: a molecular mechanism mediated by protease expression via map kinase and WNT pathways
81	Abstract 116 : <a href="#">Stefan Mereiter</a> , Andreia Almeida, Barbara Adamczyk, Chunsheng Jin, Ana Magalhães, Catarina Gomes, Maria Ibanez Veá, Martin R.Larsen, Niclas G. Karlsson, Daniel Kolarich, Celso A. Reis; Title: Glycome and sialoproteome characterization of gastric cancer cells overexpressing sialylated terminal glycans
82	Abstract 117 : <a href="#">Lan Wang</a> , Yuanyuan Ruan, Jianxin Gu; Title: CLEC-2 suppresses gastric cancer metastasis
83	Abstract 118 : <a href="#">Shujing Wang</a> ; Title: Cell surface $\alpha$ -2,6-sialylation modulates the adhesion of hepatocarcinoma cells to lymph nodes via CD22
84	Abstract 119 : <a href="#">Shujing Wang</a> , Qingtao Meng, Changle Ren; Title: Knockdown of ST6Gal-I inhibits the growth and invasion of osteosarcoma MG-63 cells
85	Abstract 120 : Qian Wu, Haiou Liu, Yidong Liu, Weisi Liu, Deng Pan, Weijuan Zhang, Liu Yang, Qiang Fu, <a href="#">Jiejie Xu</a> ; Title: Decreased expression of HNF4 $\alpha$ /MIR-122 axis in hepatitis B virus-associated hepatocellular carcinoma enhances potential oncogenic GALNT10 activity
86	Abstract 121 : Linhua Liu, Xixi Chen, Xiaohan Guo, Nanyang Li, Lijun Zhang, Liyuan Jin, Hongshuo Zhang, Jianhui Fan, ShujingWang, <a href="#">Jianing Zhang</a> ; Title: Caveolin-1 regulates core-fucosylation and $\alpha$ -1,6-fucosyltransferase (FUT8) expression level in hepatocarcinoma via WNT/ $\beta$ -catenin signaling
87	Abstract 122 : <a href="#">Shu Zhang</a> , Kai Jiang, QinleZhang, Kun Guo, Yinkun Liu; Title: Serum fucosylated GP73 as a potential glyco-biomarker of hepatocellular carcinoma complementary to AFP-L3
88	Abstract 123 : <a href="#">Zejian Zhang</a> , Xingwang Zhang, Yifan Qian, Shifang Ren, Jianxin Gu; Title: Discovery of <i>N</i> -glycans involved in ovarian cancer metastasis
89	Abstract L22 : Chang-Hong Yi, Hong-Lei Weng, Fei-Guo Zhou, Meng Fang, Jun Ji, Cheng Cheng, Hao Wang, Roman Liebe, Steven Dooley, <a href="#">Chun-Fang Gao</a> ; Title: Elevated core-fucosylated immunoglobulin G is a new marker for hepatitis B virus-related hepatocellular carcinoma

90	Abstract <b>L23</b> : <u>Karen E. Livermore</u> , Jennifer Munkley, Katherine James, Sebastian Oltean, Daniel Vodák, Craig N. Robson, Hing Y. Leung, Prabhakar Rajan, Ian G. Mills, David J. Elliott; Title: Androgens regulate glycosylation patterns in prostate cancer cells
91	Abstract <b>L24</b> : Youjing Lv, Xindi Shan, Xia Zhao, Chao Cai, Xiaoliang Zhao, Yinzhi Lang, He Zhu, Chunxia Li, <u>Guangli Yu</u> ; Title: Extraction, isolation, structural characterization and anti-tumor properties of an apigalacturonan-rich polysaccharide from sea grass <i>Zostera caespitosa</i> miki
92	Abstract <b>L25</b> : Wei Li, Lei Zhang, Hao Shen, Hiromichi Sawaki, Hisashi Narimatsu, <u>Yan Zhang</u> ; Title: Heparan sulfate 6- <i>O</i> -sulfotransferase 2 (HS6ST2) increases the metastatic properties of hepatocellular carcinoma cells
<b><u>Glycans in Signalling and Cellular Communication</u></b>	
93	Abstract <b>130</b> : <u>Žanka Bojić-Trbojević</u> , Milica Jovanović Krivokuća, Nikola Kolundžić, Danica Čujić, Ljiljana Vićovac; Title: Galectin-1 ligands in human trophoblast
94	Abstract <b>131</b> : <u>Christian Toftegaard Hjuler</u> , Kira Gysel, Clive W. Ronson, Artur Muszyński, Mickael Blaise, Jens Stougaard, Knud J. Jensen, Mikkel B. Thygesen; Title: Immobilization of bacterial exopolysaccharide provides a novel platform for protein interaction studies
95	Abstract <b>132</b> : <u>Bum Jin Kim</u> , Chanyoung Han, Jong-Soon Choi, Hyun Joo An; Title: Characterization of novel highly fucosylated <i>N</i> -glycans extracted from human saliva using structure specific LC/MS and LC/MS/MS
96	Abstract <b>133</b> : <u>Hiroshi Nakada</u> , Yugo Mori, Kaoru Akita; Title: MUC1-mediated signaling enhances expression of urokinase-type plasminogen activator, L
97	Abstract <b>L26</b> : Quancai Li, Yangyang Zeng, Linlin Wang, Huashi Guan, Lijuan Zhang, Guangli Yu, <u>Chunxia Li</u> ; Title: The anticoagulant activities and FGF/FGFR1c signaling activation of negatively charged derivatives of low-molecular-weight polymannuronate and polyguluronate acid
<b><u>Glyco(bio)technology</u></b>	
98	Abstract <b>151</b> : <u>Partha Pratim Bose</u> , Urmimala Chatterjee, Bishnu P. Chatterjee; Title: Serum asialohaptoglobin, a new biomarker for liver cirrhosis—visual detection by novel plasmonic sandwich ellsa
99	Abstract <b>152</b> : <u>Mehul Ganatra</u> , Jeremiah Read, Colleen McClung, Daniela Munafo, Brad Langhorst, Anthony Francis, Brett Robb, Jack Benner, Nathan VerBerkmoes, Christopher Taron; Title: The use of RNA-SEQ to identify a transcript encoding an <i>N</i> -acetylglucosamine-binding lectin from the edible kurokawa ( <i>Boletopsis</i> ) mushroom
100	Abstract <b>153</b> : <u>Yukinobu Goso</u> ; Title: Malonic acid suppresses <i>O</i> -glycan degradation during hydrazine treatment of glycoproteins
101	Abstract <b>154</b> : <u>Mitsuo Hayashi</u> , Masaaki Toyoda, Takayuki Matsumoto; Title: <i>O</i> -glycan preparation for liquid chromatography analysis using "BlotGlyco® sample preparation kit for <i>O</i> -glycans"
102	Abstract <b>155</b> : <u>Manja Henze</u> , Lothar Elling; Title: Microwave-assisted biocatalysis employing a thermophilic galactosidase from <i>Pyrococcus woesei</i>
103	Abstract <b>156</b> : <u>Kanji Hori</u> , Makoto Hirayama, Takemasa Sakaguchi, Hiroshi Kurokawa, Hiroyoshi Minakuchi, Kiyonori Hirota, Masahiro Iwakura; Title: A lectin-device is effective for trapping and clearance of HIV-1
104	Abstract <b>157</b> : <u>Carmen Jiménez-Castells</u> , Rhiannon Stanton, Shi Yan, Paul Kosma, Iain B.H. Wilson; Title: Bifunctional fluorescent linker for glycan labeling, mass spectrometric analysis and glycan arrays
105	Abstract <b>158</b> : <u>Seonghun Kim</u> ; Title: An efficient and optimized purification procedure for fetuin-glycan binding lectin from the mushroom fruiting body of <i>Hericium erinaceum</i>

106	Abstract <b>159</b> : <u>Seonghun Kim</u> ; Title: Carbohydrate binding specificity of a core 1 <i>O</i> -linked glycan-specific lectin from the mushroom <i>Hericium erinaceum</i>
107	Abstract <b>160</b> : <u>Yasunori Kushi</u> , Yusuke Suzuki, Tatsunori Toita, Toshio Ariga; Title: Structural characterizations of <i>N</i> -acetylglucosamineterminating neolacto-series glycosphingolipids using the monoclonal antibodies specific to <i>N</i> -acetylglucosamine residues (MAC-1) and its SCFV properties
108	Abstract <b>161</b> : <u>Brian Liao</u> , Matthew Choo, Tammy Lim, Nikolai Yakovlev, Andre Choo, Pauline Rudd, Peiqing Zhang; Title: Microarrays and biosensors—assessing adaptive immune responses to glycan antigens
109	Abstract <b>162</b> : Jin Young Gil, Jeong-Nam Park, Ji-Yeong Kang, Yeong Hun Kim, Seonghun Kim, Sang-Yoon Kim, Ohsuk Kwon, Hyun Ah Kang, <u>Doo-Byoung Oh</u> ; Title: Glyco-engineering of yeast using YIMpo1 expression for increase of mannose-6-phosphate glycans
110	Abstract <b>163</b> : <u>Julia Rosenlöcher</u> , Constanze Weilandt, Véronique Blanchard, Stephan Hinderlich; Title: Serum supplementation affects the glycosylation pattern of recombinant therapeutic proteins expressed in human TE671 cells
111	Abstract <b>164</b> : Minyong Chen, Stephen Shi, Christopher H. Taron, <u>James C. Samuelson</u> ; Title: A novel fusion protein for enrichment of <i>N</i> -linked glycopeptides
112	Abstract <b>165</b> : <u>Grit Sandig</u> , Marta Wieczorek, Andriy Grygorenko, Veronique Blanchard, Volker Sandig, Stephan Hinderlich; Title: Incorporation of artificial sugars into the glycans of heterologously expressed proteins in CHO cells
113	Abstract <b>166</b> : <u>Hideyuki Shimaoka</u> , Mitsuo Hayashi, Masaaki Toyoda, Sohei Funaoka; Title: Automated glycan sample preparation system based on BlotGlyco technology
114	Abstract <b>167</b> : <u>Rhiannon Stanton</u> , Carmen Jimenez Castells, Shi Yan, Paul Kosma, Iain Wilson; Title: Glycan arrays using natural and synthetic glycans
115	Abstract <b>168</b> : <u>Tim Steffens</u> , Frank Vorhölter, Alfred Pühler, Karsten Niehaus; Title: Glycobiology in <i>Xanthomonas campestris</i> : optimization of the metabolic flux towards xanthan biosynthesis
116	Abstract <b>169</b> : <u>Saulius Vainauskas</u> , Christopher H. Taron; Title: A new bacterial lectin that recognizes core $\alpha$ 1-6 linked fucose in <i>N</i> -glycans
117	Abstract <b>170</b> : Junyan Ma, Benwei Zhu, Xiaohui Wang, Haidong Tan, <u>Heng Yin</u> ; Title: <i>N</i> -glycosylation is important for the activity of glycoside hydrolases
118	Abstract <b>L28</b> : <u>Ritika Bishnoi</u> , T.N.C. Ramya; Title: Studies on the <i>Streptosporangium roseum</i> F-type lectin
119	Abstract <b>L29</b> : <u>John Goh</u> , Yingwei Liu, Kah Fai Chan, Corrine Wan, Gavin Teo, Peiqing Zhang, Yuanxing Zhang, Zhiwei Song; Title: Improved sialylation of erythropoietin using <i>N</i> -acetylglucosaminyltransferase i-deficient CHO glycosylation mutants, CHO-gmt4
120	Abstract <b>L30</b> : <u>Daria Sergeeva</u> , Varvara Monakhova, Yaroslav Dubrovskiy, Alexander Petrov; Title: Analysis of recombinant interleukin-7 glycoforms
121	Abstract <b>L31</b> : <u>Shailza Sharma</u> , Ramya T.N.C.; Title: Ligand binding studies of intelectins from <i>Halocynthia roretzi</i> , <i>Oncorhynchus mykiss</i> and <i>Homo sapiens</i>
122	Abstract <b>L32</b> : <u>Shashank Sharma</u> , Satbir Kaur Gill, Iain Shaw, Marian Kane, Lokesh Joshi; Title: Development of DNA aptamers for the specific identification of the non-human form of sialic acid, Neu5Gc for use in diagnostics and in quality assurance applications of recombinant therapeutic production
123	Abstract <b>L33</b> : <u>Gurdeep Singh</u> , Kautilya Kumar Jena, Raj Kumar Sharma, Javed N. Agrewala, Ramya T.N.C., Debendra K. Sahoo; Title: Directional conjugation of anti-CD86 monoclonal antibodies to gold nanorods via glycan oxidation and hydrazide chemistry
124	Abstract <b>L34</b> : Zhigang Wu, Yunpeng Liu, <u>Peng George Wang</u> ; Title: Chemoenzymatic



### POSTER SESSION III

Posters should be installed on the panels numbered according to the following schedule, and during designated times.

Day & time of installing : **Friday, September 18th, before 10:30**

Day & time of dismantling : **Saturday, September 19th, after 19:00**

PANEL NO.	Section
	<b>Glyco(bio)informatics</b>
125	Abstract 141 : <u>Philip Toukach</u> , Ksenia Egorova; Title: CSDB: Carbohydrate structure database merged from bacterial, plant and fungal parts
126	Abstract 142 : <u>Frano Vučković</u> , Ivo Ugrina, Gordan Lauc, Yurii Aulchenko; Title: Normalization and batch correction methods for high-throughput glycomics
127	Abstract L27 : <u>Marko Jovanović</u> ; Title: Novel bioinformatic tools needed for high-throughput data analysis and visualization of oligosaccharide MS/MS spectra
	<b>Glyco(proteo)mics</b>
128	Abstract 177 : <u>Laura Bouché</u> , Emma Richards, Maria Panico, Neil Fairweather, Howard Morris, Anne Dell; Title: Glycoproteomics of the S-layer of <i>C. difficile</i>
129	Abstract 178 : <u>Bishnu P. Chatterjee</u> , Ashish Saroha, Gautam Mondal, Partha Pratim Bose; Title: Comparative glycoproteomic study of serum proteins in chronic hepatitis C and hepatitis C induced liver cirrhosis patients
130	Abstract 179 : <u>Jun-ichi Furukawa</u> , Jinhua Piao, Kazuko Okada, Nobuo Sakairi, Yasuro Shinohara; Title: Rapid and quantitative <i>O</i> -glycomics of various biological samples by microwave-assisted $\beta$ -elimination in the presence of pyrazolone analogues
131	Abstract 180 : Paula Magnelli, Elizabeth McLeod, Colleen McClung, Rengeng Liu, Alicia Bielik, <u>Ellen Guthrie</u> ; Title: Improving antibody characterization: rapid PNGase F for accurate <i>N</i> -glycan analysis
132	Abstract 181 : <u>Chu-Wei Kuo</u> , Tsung-Hsien Pu, Amol Prakash, Kay-Hooi Khoo ; Title: Increasing the fidelity and utilities of mass spectrometry-based protein site-specific glycosylation analysis and glycoproteomics
133	Abstract 182 : <u>Yolanda H. Mthembu</u> , Chunsheng Jin, Jining Liu, Niclas G. Karlsson, Jan Holgersson; Title: The specificity of $\alpha$ -1,4- <i>N</i> -acetylglucosaminyltransferase ( $\alpha$ 4GNT) and $\beta$ -1,4- <i>N</i> -acetylgalactosaminyltransferase ( $\beta$ 4GalNT) on the different <i>O</i> -glycan core chains using a mucin type reporter protein
134	Abstract 183 : <u>Kazue Okada</u> , Jun-ichi Furukawa, Jinhua Piao, Roland Schauer, Yasuro Shinohara; Title: Comprehensive <i>N</i> -, <i>O</i> - and glycosphingolipidglycomics of meat and/or roe of popular seafoods
135	Abstract 184 : <u>Cassandra Pegg</u> , Christine Hoogland, Sara Johnson, Cristina Gonzalez, Mark Peeples, Jeffrey Gorman; Title: Characterisation of glycosylation of paramyxovirus surface glycoproteins by mass spectrometry

136	Abstract <b>185</b> : <u>Weijie Qin</u> , Haihong Bai, Wanjun Zhang, Xiaohong Qian; Title: A pH-responsive soluble polymer-based homogeneous system for fast and highly efficient glycoprotein enrichment and identification by mass spectrometry
137	Abstract <b>186</b> : <u>Kathrin Stavenhagen</u> , Rosina Plomp, Gillian Dekkers, Yoann Rombouts, Paul J. Hensbergen, Gestur Vidarsson, ManfredWuhrer; Title: A novel C18-PGC-LC-ESI-MS/MS approach for sitespecific protein glycosylation analysis applied to human IgG3
138	Abstract <b>187</b> : <u>Iain B. H.Wilson</u> , Katharina Paschinger; Title: Sweet secrets of a therapeutic worm: the <i>N</i> -glycome of <i>Trichuris suis</i>
139	Abstract <b>188</b> : <u>Ganqlong Yang</u> , Zengqi Tan, Wei Lu, Jiaxu Zhang, Feng Guan; Title: Quantitative glycomes analysis of <i>N</i> -glycan patterns in bladder cancer cells
140	Abstract <b>189</b> : <u>Ikuko Yokota</u> , Jun-ichi Furukawa, Shota Sakai, Kazue Okada, Hisatoshi Hanamatsu, Yasuyuki Igarashi, Yasuro Shinohara; Title: Quantitative glycosphingolipid glycomics of human whole serum based on egcase-assisted glycan cleavage, glycoblotting-assisted sample preparation, and MALDITOF MS analysis
141	Abstract <b>190</b> : <u>Peiqing Zhang</u> , Corrine Wan, Susanto Woen, Pauline M. Rudd; Title: Comparative glycosylation analysis of Alpha-1 antitrypsin derived from human plasma and recombinant cell culture
142	Abstract <b>L35</b> : <u>Cheng Ma</u> , Jingyao Qu, Xu Li1, Lei Li, Peng George Wang; Title: Increasing core-fucosylated glycoproteome coverage via alternating HCD and ETD fragmentation
143	Abstract <b>L36</b> : Hannes Hinneburg, Kathrin Stavenhagen, Ulrike Schweiger-Hufnagel, <u>Stuart Pengelley</u> , Peter H. Seeberger, Daniel Varón Silva, Manfred Wuhrer, Daniel Kolarich; Title: A systematic investigation of CID QTOF collision energies for complete identification of glycopeptides by mass spectrometry
144	Abstract <b>L37</b> : Xu Li, Cheng Ma, Jing Li, <u>Peng Wang</u> ; Title: <i>N</i> -glycoprotein biomarker identification in rheumatoid arthritis patients sera
	<b>Glycobiology of Autoimmune and Inflammatory Diseases</b>
145	Abstract <b>197</b> : <u>Clara Barrios</u> , Jonas Zierer, Ivan Gudelj, Jerko Štambuk, Ivo Ugrina, Eva Rodríguez, María José Soler, Tamara Pavić, Mirna Šimurina, Toma Keser, Maja Pučić-Baković, Massimo Mangino, Julio Pascual, Tim D. Spector, Gordan Lauc, Cristina Menni; Title: Glycosylation profile of immunoglobulin G in moderate kidney dysfunction
146	Abstract <b>198</b> : <u>Ana Dias</u> , Alexandra Correia, Márcia Pereira, Sara Campos, Ricardo Marcos-Pinto, Manuel Vilanova, Paula Lago, Celso Reis, Salomé Pinho; Title: <i>N</i> -glycans in the control of T cells immune response in inflammatory bowel disease
147	Abstract <b>199</b> : <u>Toma Keser</u> , Irena Trbojević Akmačić, Nicholas T Ventham, Evropi Theodoratou, Frano Vučković, Nicholas A Kennedy, Elaine R Nimmo, Rahul Kalla, Hazel Drummond, Jerko Štambuk, Harry Campbell, Charlotte Hedin, Mauro D'Amato, Jonas Halfvarsson, Jack Satsangi, Gordan Lauc; Title: Changes in the IgG glycome associated with inflammatory bowel disease
148	Abstract <b>L38</b> : <u>Maxim B. Freidin</u> , Dunja Vucenovic, Stella Fabiani, Frances MK Williams; Title: Investigating mechanisms of low back pain
149	Abstract <b>L39</b> : <u>Youxin Wang</u> , Lucija Klarić, Xinwei Yu, Kujtim Thaqi, Jing Dong, Mislav Novokmet, Jim Wilson, Ozren Polasek, Youqin Liu, Jasminka Krištić, Siqi Ge, Maja Pučić-Baković, Lijuan Wu, Yong Zhou, Ivo Ugrina, Manshu Song, Jie Zhan, Xiuhua Guo, Qiang Zeng, Igor Rudan, Harry Campbell, Yurii Aulchenko, Gordan Lauc, Wei Wang; Title: The associations between glycosylation of immunoglobulin G and blood pressures: a multiple ethnic cross-sectional study
	<b>Glycobiology of Infectious Disease</b>

150	Abstract <b>208</b> : <u>Fausto Almeida</u> , JulieWolf, Carlos de Leon–Rodriguez, Marcio Lourenço Rodrigues, Maria Cristina Roque–Barreira, ArturoCasadevall; Title: Effect of Galectin–3 on the extracellular vesicles from <i>Cryptococcus neoformans</i>
151	Abstract <b>209</b> : Jenny Molina, Elizabeth Ferrer, Leidy Herrera, Maria Perez Pallares, Aranzazu Arellano, Maria Alvarez, Francesca Norman, Begoña Monge–Maillo, Jose Antonio Perez–Molina, Rogelio Lopez–Velez, Manuel Soto, <u>Pedro Bonay</u> ; Title: Serum <i>N</i> -glycome as potential biomarker of disease status and therapeutic efficacy in Chagas' disease
152	Abstract <b>210</b> : Yaogang Zhong, Hanjie Yu, Tianran Ma, Yannan Qin, <u>Zheng Li</u> ; Title: Molecular biomarkers of the susceptible population with influenza viruses: siaylated glycans in human salivary
153	Abstract <b>211</b> : <u>Barbara Richichi</u> , Emilie Gillon, Rosa Bosco, Gianluca Salerno, Ieva Sutkeviciute, Anne Imberty, Franck Fieschi, Cristina Nativi; Title: A synthetic glycan–based inhibitor of BamBL, a fucose–specific bacterial lectin from <i>Burkholderia ambifaria</i>
154	Abstract <b>212</b> : Ayumi Sando, Tomoko Abe, Seiji Okazaki, Kazuya IPJ Hidari, Tadamune Ootsubo, Fumiteru Teraoka, Kiyoshi Ikeda, Takashi Suzuki, Kouichi Morita, <u>Hiroaki Tokiwa</u> ; Title: Theoretical study of anti–dengue virus inhibitors using the first–principles calculation and MD simulation
155	Abstract <b>213</b> : Junjie Shan, Qian Li, Ting Zhu, Yongping Zhang, <u>Yuxia Wang</u> ; Title: An arabinogalactan from <i>Isatis indigotica</i> and its adjuvant effects on H1N1 influenza and hepatitis B antigens
156	Abstract <b>L40</b> : <u>Corinna Landig</u> , Jerry Fong, Sarika Agarwal, Flavio Schwarz, Paola Massari, Victor Nizet, Sanjay Ram, Ajit Varki; Title: The human–specific pathogen <i>Neisseria gonorrhoeae</i> engages innate immunoregulatory siglec receptors in a species–specific manner
	<b>Glycoimmunology</b>
157	Abstract <b>220</b> : <u>Melissa Arcuri</u> , Adam Cunningham, Allan Saul, Calman MacLennan, Francesca Micoli; Title: Glycoconjugate vaccine design: combination of conjugation parameters for the development of an improved vaccine against <i>Salmonella typhi</i>
158	Abstract <b>221</b> : <u>Felix Broecker</u> , Christopher E. Martin, Jonas Hanske, Felix Wojcik, Laura Hartmann, Jochen Mattner, Clancy L. Pereira, Christoph Rademacher, Chakkumkal Anish, Peter H. Seeberger; Title: Vaccine potential of synthetic <i>Clostridium difficile</i> glycans
159	Abstract <b>222</b> : <u>Jean–Baptiste Farcet</u> , Nino Trattnig, Ralph Pantophlet, Paul Kosma; Title: Synthesis towards bacterial mimetics of HIV–1 GP120 glycans
160	Abstract <b>223</b> : <u>Chun–Hua Hung</u> , Hsuan–Heng Yeh, Hao–Chen Wang, Chuan–Fa Chang, Wu–Chou Su; Title: Lung cancer cell–secreted IL–6 glycoforms differentially modulate the polarization of tumor–associated macrophage
161	Abstract <b>224</b> : <u>Ian Loke</u> , Nicolle H Packer, Morten Thaysen–Andersen; Title: The <i>N</i> -glycosylation of neutrophil cathepsin G and its role in the host innate immunity against <i>Pseudomonas aeruginosa</i>
162	Abstract <b>225</b> : <u>Megumi Maeda</u> , Naoto Takeda, Mariko Kimura, Yoshinobu Kimura; Title: Synthesis of a novel glycopolymer carrying multivalent plant antigenic <i>N</i> -glycans
163	Abstract <b>226</b> : <u>Jeong Yeon Seo</u> , ChangWonLee, Doo Jin Choi, Sarang Cho, Yong Il Park; Title: Anti–cancer activity of a low–molecular weight oligosaccharide prepared by enzymatic degradation of ginseng marc–derived polysaccharide against murine skin melanoma cells via activation of RAW264.7 murine macrophage cells
164	Abstract <b>227</b> : <u>Nadezhda V. Shilova</u> , Nailya R. Khasbiullina, Nicolai V. Bovin; Title: Natural anti–glycan antibodies of mammals and birds
165	Abstract <b>228</b> : <u>Albert M. Wu</u> , Anna Dudek, En–Tzu Chang, Yuan Niang Chen, Shuh–Chyung Song; Title: Differential effects of super– /SUB– molecular recognition factors on <i>Dolichos biflorus</i> agglutinin (DBA) – glycan interactions and their accommodating sites

166	Abstract <b>L41</b> : Ya-Lang Huang, Yun-Ting Tsou, Feng-Shuo Pai, Teh-Ying Chou, Tsui-Ling Hsu, Chung-Yi Wu, Wen-Bin Yang, Chung-Hsuan Chen, Chi-Huey Wong, <u>Shie-Liang Hsieh</u> ; Title: Human <i>clec18</i> gene cluster contains polymorphic C-type lectins with differential glycan-binding specificity
<b>Glycolipids, Membrane Domains and Cell Signalling</b>	
167	Abstract <b>232</b> : <u>Elena Chiricozzi</u> , Aida Paniccia, Vincenzo Russo, Sandro Sonnino; Title: LXR $\alpha$ -silencing induces apoptosis by glycosphingolipid-derived ceramide in different tumor cell type
168	Abstract <b>233</b> : Kouji Tanaka, Keiko Tamiya-Koizumi, Masaki Yamada, Takashi Murate, Reiji Kannagi, <u>Mamoru Kyogashima</u> ; Title: Environmental oxygen levels greatly influence on the constituent ceramide species of glycosphingolipids from human colon cancer cells
169	Abstract <b>234</b> : <u>Yuh-Jin Liang</u> ; Title: Interaction of disialyl gangliosides GD2/GD3 with growth factor receptors sustains the stem cell phenotype of breast cancer
170	Abstract <b>235</b> : <u>Kenji Monde</u> , Siddabasave Gowda, Keiko Yamane, Atsufumi Nakahashi, Mostafa Hammam, Tohru Taniguchi, Ananda Kumar, Seigo Usuki, Yasuyuki Igarashi; Title: Highly efficient preparation of sphingoid bases from glucocerebrosides and their biological activities
171	Abstract <b>L42</b> : <u>Tetsuya Hirata</u> , Morihisa Fujita, Shota Nakamura, Daisuke Motooka, Noriyuki Kanzawa, Yoshiko Murakami, Yusuke Maeda, Taroh Kinoshita; Title: PGAP4, a multipass Golgi transmembrane protein, is a GPI-GalNAc transferase for generating GPI-anchor side chain
172	Abstract <b>L43</b> : <u>In Jung Ji</u> , Jae Yun Hwang, Hyun Joo An; Title: Robust analytical platform with high sensitivity to characterize cell surface gangliosides using negative ion mode nano LC/MS
<b>Glycoproteins and Glycolipids in Disease</b>	
173	Abstract <b>242</b> : <u>Anna Buczkowska</u> , Dirk Lefeber, Lukasz Borowski, Andrzej Dziembowski, Ewa Swiezewska; Title: Is protein glycosylation modulated in SRD5A3-deficient model cell lines?
174	Abstract <b>243</b> : <u>Masaya Hane</u> , Ken Kitajima, Chihiro Sato; Title: Effects of psychiatric disorders-related intronic single nucleotide polymorphisms (iSNPS) of the polysialyltransferase ST8SIA2/STX gene
175	Abstract <b>244</b> : <u>Pawel Link-Lenczowski</u> , Katarzyna Chwalenia, Martyna Jastrzebska, Piotr Pierzchalski, Jolanta Jaworek; Title: Glycomic changes during colon adenocarcinoma re-differentiation
176	Abstract <b>245</b> : <u>Tamara Pavić</u> , Agata Juszcak, Edita Pape Medvidović, Mislav Novokmet, Mark McCarthy, Gordan Lauc, Katharine Owen, Olga Gornik; Title: Protein fucosylation in diagnosis of maturity onset diabetes of the young
177	Abstract <b>246</b> : <u>Michael Schalli</u> , Cornelia Hojnik, Eduard Paschke, Andrés González Santana, Arnold E. Stütz, Martin Thonhofer, Stephen G. Withers, Tanja M. Wrodnigg, Manuel Zoidl; Title: Glycolipid mimetics: lipophilic carbasugars as inhibitors and chemical chaperones for GM1 gangliosidosis
178	Abstract <b>247</b> : <u>Arnold E. Stütz</u> , Roland Fischer, Cornelia Hojnik, Eduard Paschke, Andrés González Santana, Michael Schalli, Martin Thonhofer, Stephen G. Withers, Tanja M. Wrodnigg, Manuel Zoidl; Title: Glycolipid mimetics: fluorine containing isoiminosugars as chemical chaperones for GM1 gangliosidosis and Fabry's disease
179	Abstract <b>248</b> : <u>Martin Thonhofer</u> , Cornelia Hojnik, Eduard Paschke, Andrés González Santana, Michael Schalli, Arnold E. Stütz, Stephen G. Withers, Tanja M. Wrodnigg, Manuel Zoidl; Title: Glycolipid mimetics: lipophilic 4-epi-isofagomine derivatives as chemical chaperones for GM1 gangliosidosis and Morquio B
180	Abstract <b>249</b> : <u>Manuel Zoidl</u> , Andrés González Santana, Cornelia Hojnik, Michael Schalli, Aloysius Siriwardena, Arnold E. Stütz, Martin Thonhofer, Steven G. Withers, Tanja M. Wrodnigg; Title: A powerful approach towards C-glycosyl type iminoalditol building blocks for biological applications

181	Abstract <b>L44</b> : <u>Zhongying Xiao</u> , Zhigang Wu, Yuxi Guo, Yunpeng Liu, Lei Li, Peng George Wang; Title: Preparation of protein-polysaccharide conjugates by enzymatic elongation
<b>Glycosylation in Bacteria</b>	
182	Abstract <b>254</b> : <u>Ji-Yeon Kang</u> , Se-Jong Lim, Ohsuk Kwon, Seung-Goo Lee, Doo-Byoung Oh; Title: Enhanced $\alpha$ -2,6-sialylation by bacterial sialyltransferase reaction coupled with dephosphorylation of cytidine-5'-monophosphate
183	Abstract <b>255</b> : <u>Chia-Wei Lin</u> , Micha A. Haeuptle, Markus Aebi; Title: Supercharging reagent for enhanced liquid chromatographic separation and charging of acidic and giant glycopeptides for nanolc-ESI-MS/MS
184	Abstract <b>256</b> : Christian M. Harding*, <u>Mohamed A. Nasr*</u> , Rachel L. Kinsella, Nichollas E. Scott, Leonard J. Foster, Brent S. Weber, Steve E. Fiester, Luis A. Actis, Erin N. Tracy, Robert S. Munson Jr., Mario F. Feldman; Title: Identifying different classes of <i>O</i> -otases in <i>Acinetobacter</i> species and their potential in glycoengineering
185	Abstract <b>L45</b> : Jennifer M. Hayashi, Chu-Yuan Luo, Tsungda Hsu, <u>Yasu S. Morita</u> ; Title: Growth pole-associated membrane scaffolding biosynthetic machinery for cell envelope glycans in <i>Mycobacterium smegmatis</i>
<b>Intestinal Glycoscience</b>	
186	Abstract <b>259</b> : <u>Chunsheng Jin</u> , Diarmuid T Kenny, Emma C Skoog, Barbara Adamczyk, Sara K. Lindén, Niclas G. Karlsson; Title: Structural diversity of human gastric mucin glycans

#### POSTER SESSION IV

Posters should be installed on the panels numbered according to the following schedule, and during designated times.

Day & time of installing : **Friday, September 18th, before 10:30**

Day & time of dismantling : **Saturday, September 19th, after 19:00**

PANEL NO.	Section
<b>Neuroglycoscience</b>	
187	Abstract <b>263</b> : <u>Moran Frenkel-Pinter</u> , Shiri Stempler, Sharon Tal, Yelena Solovey, Avnika Singh-Anand, Daniela Escobar-Álvarez, Jonathan Lezmy, Ehud Gazit, Eytan Ruppin, Daniel Segal; Title: New insights into the role of alterations in protein glycosylation in Alzheimer's disease pathology
188	Abstract <b>264</b> : Senka Blažetić, Ronald L. Schnaar, Irena Labak, <u>Marija Heffer</u> ; Title: Distribution of parvalbumin and calbindin-D28k interneuron in the brain of ST3GAL2, ST3GAL3 and ST3GAL2/3 double null mice
189	Abstract <b>265</b> : <u>René Hennig</u> , Jana Tuchscherer, Karl-Heinz Smalla, Rodrigo Herrera-Molina, Michael Naumann, Udo Reichl, Thilo Kähne, Erdmann Rapp; Title: The sweet side of neurons - xCGE-LIF based characterization of neuron and synaptic <i>N</i> -glycan composition
190	Abstract <b>266</b> : <u>Haruna Hirota</u> , Keiko Kato; Title: Possibility that ST3GAL IV deficient mouse is a schizophrenia model
191	Abstract <b>267</b> : In Jung Ji, Serenus Hua, <u>Hyun Joo An</u> ; Title: Probing the brain glycome by tissue glyco-capture and nano-LC/MS and MS/MS
192	Abstract <b>268</b> : <u>Yoshiaki Nakayama</u> , Keiko Kato, Naosuke Nakamura, Morichika Konishi, Akira Kurosaka; Title: GALNT17/Wbscr17 knockout mice show decreased growth and hyperprolactinemia

193	Abstract <b>269</b> : <u>Maura Samarani</u> , Nicoletta Loberto, Valentina Murdica, Domitilla Schiumarini, Simona Prioni, Alessandro Prinetti, Sandro Sonnino, Rosaria Bassi, Massimo Aureli; Title: Dissecting the role of glycohydrolases in the central nervous system: GBA2 in the neuronal differentiation
194	Abstract <b>270</b> : <u>Mirna Šimurina</u> , Ivo Ugrina, Fran Borovečki, Gordan Lauc; Title: Immunoglobulin G and total plasma protein <i>N</i> -glycosylation in Parkinson's disease
195	Abstract <b>L46</b> : Katarina Lichnerova, Martina Kaniakova, Seung Pyo Park, Kristyna Skrenkova, Ya-Xian Wang, Ronald S. Petralia, Young Ho Suh, <u>Martin Horak</u> ; Title: <i>N</i> -glycosylation regulates trafficking and function of NMDA receptors in the mammalian brain
196	Abstract <b>L47</b> : Tahmina Foyez, Yoshiko Takeda-Uchimura, Shinsuke Ishigaki, Zui Zhang, Narentuya, Gen Sobue, Kenji Kadomatsu, <u>Kenji Uchimura</u> ; Title: Microglial keratan sulfate up-regulated in the spinal cord and brainstem of transgenic model mice and patients of ALS
<b>Proteoglycans</b>	
197	Abstract <b>274</b> : Yi Qin, Eric Xu, <u>Kan Ding</u> ; Title: Structure and function of D-glycuronyl C5-epimerase
198	Abstract <b>275</b> : <u>Naoko Takeda</u> , Jun-ichi Tamura; Title: Synthesis of keratan sulfate oligosaccharides having biotin-linker
199	Abstract <b>276</b> : <u>Jun-ichi Tamura</u> , Kazuya Arima, Ryosuke Toita, Kento Ueda, Naoko Takeda; Title: Amounts and sulfation patterns of chondroitin sulfate in the tissues of fish
200	Abstract <b>L48</b> : <u>Shang-Cheng Hung</u> ; Title: Synthetic heparan sulfate oligosaccharides and their protein interactions
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