

## International Conference

# 6th ACGG






9-12, December 2014  
School of Life Sciences  
School of Chemistry  
University of Hyderabad  
Hyderabad 500046

## 6th Asian Community of Glycoscience and Glycotechnology

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Scientific Program for the 6th ACGG conference December 9-12, 2014 School of Life Sciences and School of Chemistry University of Hyderabad India	
Day 1 December 10, 2014	
9:30-10:00	Inauguration
10:00-10:30	Tea break 
10:30-12:55	Session 1, Glycobiology I Chairs: Sopit Wongkham and Akemi Suzuki
10:30-10:55	<b>Hisashi Narimatsu</b> (Japan) Past, present and future of glycogene: From discovery of the first mammalian glycotransferase gene to the future task
10:55-11:20	<b>Sumalee Obchoei</b> (Thailand) Novel synthetic mono-trizole glycosides inhibit growth of cholangiocarcinoma cell lines through G1 cell cycle arrest
11:20-11:45	<b>Ubon Cha'on</b> (Thailand) Lactate dehydrogenase as a therapeutic target of cholangiocarcinoma
11:45-12:10	<b>Shashikala Inamdar</b> (India) Characterization of anti-tumor Sclerotium rolfsii lectin (SRL) binding membrane proteins from human colon epithelial cancer HT 29 cells: A proteomics study
Short talks	
12:10-12:25	<b>Chatchai Phoomak</b> (Thailand) Roles of O-GlcNAcylation on the progression of cholangiocarcinoma
12:25-12:40	<b>Kishore Babu Bobbale</b> (India) Primary structure energetic of chitoooligosaccharide binding and thermal stability of a PP2-like lectin, CIA17 from the phloem exudates of Coccinia indica
12:40-12:55	<b>Paweena Dana</b> (Thailand) Suppression of CD147 expression reduced metastatic activity of cholangiocarcinoma in vitro and in vivo

12:55-2:00	Lunch break 
2:00-3:55	Session 2 Glycochemistry I Chairs: R. Balamurugan and P. Ramu Sreedhar
Long Talks	
2:00-2:25	<b>N.Jayaraman</b> (India) Synthesis and Structures of Septanoside Un-natural Sugars
2:25-2:50	<b>Kioko Aoki-Kinoshita</b> (Japan) The GlyTouCan International Glycan Structure Repository
2:50-3:15	<b>Srinivas Hotha</b> (India) Reciprocal Donor Acceptor Synthesis Studies on Arabinofuranosides
3:15-3:40	<b>Masahiro Wakao</b> (Japan) Synthesis of chondroitin sulfate tetrasaccharide structures and their interaction analysis with GAG-binding proteins by using SPR imaging
Short Talks	
3:40-3:55	<b>Ryo Okamoto</b> (Japan) A new approach for the semi synthesis of N-glycosylated proteins using chemical cleavage and activation reactions
3:55-4:10	<b>Gadi Madhusudhan Reddy</b> (India) 3-C- branched glycals and their synthetic applications
4:10-4:30	Tea break 
4:30-5:30	Session 3 Glycobiology II Chairs: Voraratt Champattanachai
Short Talks	
4:30-4:45	<b>Diwakar Guragain</b> (Thailand) Repurposing anti-parasitic drugs as anti-metastatic agents for treatment of cholangiocarcinoma
4:45-5:00	<b>Hsin-Yu Lee</b> (Taiwan) Immunogenicity study of Globo H analogues with modification at the reducing or non-reducing end of the tumor antigen
5:00-5:15	<b>Pukkavadee Netsirisawan</b> (Thailand) O-GlcNAc secretomes from breast cancer cell lines

5.15-5.30	<b>Dr. Toshiyuki Yamaji</b> (Japan) Genetic approaches for studying sphingolipid metabolism: construction of sphingolipid gene disruptants in HeLa cells by genome editing
5:30-7:30	Poster session 
5:30-6:15	Steering committee meeting 
7:30 onwards	Dinner 
Day 2 December 11, 2014	
9:30-11:25	Session 4 Glycotechnology I Chairs: Avadesha Surolia and Jin-Ichi Inokuchi
Long Talks	
9:30-9:55	<b>Voraratt Champattanachai</b> (Thailand) Aberrant O-GlcNAcylated proteins: A novel biomarker candidate of colorectal cancer
9:55-10:20	<b>Chung-Yi Wu</b> (Taiwan) Carbohydrate-Based Vaccines: Challenges and Opportunities
10:20-10:45	<b>Xio-Dong Gao</b> (China) Applied uses of Yeast Spores
10:45-11:10	<b>Raghavendra Kikkeri</b> (India) Cyclodextrin based Smart Materials for Biosensing, Imaging and Medical Applications

Short Talk	
11:10-11:25	<p><b>Sang-Jin Kim</b> (Korea)</p> <p>Glycosylation Characterization of PGIPs and EPGs by LC-MS/MS</p>
11:25-11:45	<p>Tea break</p> 
11:45-1:00	<p>Session 5 Glycoscience I</p> <p>Chairs: Hisashi Narimatsu and Ubon Cha'on</p>
Long Talks	
11:45-12:10	<p><b>Avadesha Surolia</b> (India)</p> <p>Diversity of carbohydrate binding sites in <math>\beta</math>-Prism fold lectins</p>
12:10-12:35	<p><b>Jun Hirabayashi</b> (Japan)</p> <p>Frontal affinity chromatography and lectin frontier database (LfDB)</p>
12:35-1:00	<p><b>Josef Voglmeir</b> (China)</p> <p>A novel extremely acidic bacterial N-glycanase with combined advantages of PNGase F and A</p>
1:00-2:00	<p>Lunch break</p> 
2:00-3:45	<p>Session 6 Glycotechnology II</p> <p>Chairs: Apparao Podile</p>
Long Talks	
2:00-2:25	<p><b>Rudolf Grimm</b> (Agilent Technologies Inc)</p> <p>Glycosylated proteins preserved over millennia: N-glycan analysis of Tyrolean Iceman, Scythian Princess and Warrior</p>
2:25-2:50	<p><b>Kiyohiko Angata</b> (Japan)</p> <p>Analysis and targeting of glycosylation in HBV secretions</p>
2:50-3:15	<p><b>Ningombam Sanjib Meitei</b> (PREMIER Biosoft)</p> <p>Automating Mass Spectrometry-Based Qualitative and Quantitative Workflows with SimGlycan</p>
Short Talks	
3:15-3:30	<p><b>Atsushi Matsuda</b> (Japan)</p> <p>High-sensitive detection of MUC1 glycosylation by glycan profiling with an antibody-overlay lectin microarray</p>

3:30-3:45	<b>Madhuprakash Jogi</b> (India) Catalytic efficiency of chitinase-D on insoluble chitinous substrates was improved by fusing auxiliary domains
3:45-4:15	Tea break 
4:15-5:30	Session 7 Glycobiology III Chairs: Yong-Sam Kim and Chung-Yi Wu
Long Talks	
4:15-4:40	<b>Germaine Goh</b> (Singapore) Regulation of Thomsen-Friedenreich antigen expression by Eph receptor signaling
4:40-5:05	<b>Suguna Kaza</b> (India) Affinity of a galactose-specific legume lectin from Dolichos lablab to Adenine revealed by X-ray crystallography
5:05-5:30	<b>P.S. Appukuttan</b> (India) Immunopathology of desialylation: human plasma lipoprotein (a) forms immune complexes that recognize host cells
5:30-5:55	<b>Srinivasa-Gopalan S</b> (India) Modulation of mucin-type O-glycosylation of cell surface antigens using non-natural monosaccharide analogues
6:30-7:30	Cultural night
7:30 onwards	Dinner 
Day 3 December 12, 2014	
9:00-11:40	Session 8 Glycoscience II Chairs: Kazuyuki Sugahara and Yoshiki Yamaguchi
Long Talks	
9:00-9:25	<b>B. M. Swamy</b> (India) selective toxicity of Sclerotium rolfsii lectin on S. litura but not to H. armigera due to its ability to recognize critical gut membrane proteins
9:25-9:50	<b>Toshihide Shikanai</b> (Japan) A new JCGGDB Plan for Semantic Web
9:50-10:15	<b>Jin-Ichi Inokuchi</b> (Japan)

	Control of Homeostatic and Pathogenic Balance in Adipose Tissue by Ganglioside GM3
10:15-10:40	<b>In Ho Park</b> (Korea) Genetic basis for a new serotype, 6 H and two possible serotypes (6X13 and 6X14) containing di-or quadruple-repeating units in Streptococcus pneumonia serogroup 6
10:40-11:00	Tea break 
11:00-12:15	Session 9 Glycobiology IV Chairs Josef Voglmeir and In Ho Park
Long Talks	
11:00-11:25	<b>Yong - Sam Kim</b> (Korea) Semi-quantitative of a specific glycoform using a DNA tagged antibody and lectin affinity chromatography for glycol-biomarker development
11:25-11:50	<b>Yoshiki Yamaguchi</b> (Japan) The indirect effect of bisecting GlcNAc on binding to PHA-E lectin: A possible role for conformer selection
Short Talk	
11:50-12:05	<b>Somsiri Indramanee</b> (Thailand) Association of Lewis Y expression of cholangiocarcinoma
12:05-12:55	Session 10 Glycoscience III Chairs Masahiro Wakao and Germaine Goh
Long Talks	
12:05-12:30	<b>Akemi Suzuki</b> (Japan) Targeted LC-MS analysis of glycosphingolipids
12:30-12:55	<b>Kazuyuki SUGAHARA</b> (Japan) Mechanism of Glycosaminoglycan-mediated tumor metastasis
12.55-1:20	Concluding session followed by Lunch 