

International Symposium on Molecular Immunology of Complex Carbohydrates-3 國際醣類分子免疫學研討會

時間：96 年 7 月 9 日（週一）至 12 日（週四）

地點：本院生物化學研究所 1 樓演講廳

7 月 9 日

時間	主持人	講題/主講人
8:50-9:00	王惠鈞、趙崇義	Opening Remarks
Keynote Lecture 09:10-10:00	蔡明道	Post-Translational Glycosylation: Challenges and Opportunities / 翁啓惠
Session 1. Biomedical Importance of Glycotopes		
Plenary lecture 1 10:30-11:10	李遠川 Shin-Ichiro Nishimura	Conformational and Biological Characterization of Synthetic Mucin Glycopeptides / Shin-Ichiro Nishimura
11:10-11:30		Development of New Methodologies for Carbohydrate Synthesis / 洪上程
11:30-11:50		Application of Functionalized Nanoparticle in Protein Isolation, Detection and Targeting / 林俊成
11:50-12:10		Comprehensive Analysis of Protein-Derived Glycans of Tumor Cells-Target for Clinical Diagnosis / Kazuaki Kakehi
Session 2. Biomolecular Interactions		
Plenary lecture 2 13:50-14:30	邱繼揮 Els JM Van Damme	Serendipity in Scientific Discoveries: Some Examples in Glycosciences / 李遠川
Plenary lecture 3 14:30-15:10		Studying the Carbohydrate Self-Recognition in Marine Sponges Using Synthetic Aggregation Factor Epitopes / Hans Kamerling
15:10-15:30		Non-Carbohydrate Mediated Interaction of Lectins with Plant Proteins / V.P. Bhavanandan
15:30-15:50		Novel Concepts about the Role of Lectins in the Plant Cell and their Applications / Els JM Van Damme & Willy Peumans
15:50-16:10		Recognition Factors of Applied Lectins / Tanuja Singh
Session 3. Functions of Glycans and Glyco-enzymes (I)		
16:30-16:50	林俊宏 Kiyoshi Furukawa	Biological Significance of Galactose on N-Glycans at Cell Surface / Kiyoshi Furukawa
16:50-17:10		Structure and Mechanism of <i>Helicobacter pylori</i> Fucosyltransferase : Ongoing Challenges in Drug Discovery / 林俊宏
17:10-17:25		The α 1,3-Fucosyltransferase III, V, and VI and α 2,3-Sialyltransferase III Are Involved in the <i>Helicobacter pylori</i> -induced Sialyl-Lewis x Expression on the Gastric Epithelial Cells / 呂政展
17:25-17:40		Vitreous and Subretinal Glycoconjugates in Retinal Detachment Patients / 吳爲吉

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Session 4. Functions of Glycans and Glyco-enzymes (II)		
Plenary lecture 4 08:50-09:30	吳世雄 Chitra Mandal	From Mass Spectrometry-Based Glycomic Analysis to Glycobiology / 邱繼輝
09:30-09:50		Isolation, Identification and Biological Functions of Glycolipids and Phosphoglycolipids from Indigenous Thermophilic Bacteria / 吳世雄
09:50-10:10		A Unique Endo- β -Galactosidase that Cleaves both Blood Group A and B Glycotopes / Su-Chen Li
10:10-10:25		Novelties in N-linked Glycans of Ancient Protozoan Parasites / 華國媛
Plenary lecture 5 10:45-11:10		The Role of O-Acetylated Sialic Acids in Innate and Acquired Immunity / Roland Schauer
11:10-11:30		Ganglioside GD1a Suppression of Metastatic Properties of FBJ-cells: Regulation of Caveolin-1, Stim1 and Metalloproteinase-9 Expression by Ganglioside GD1a / Tatsuya Yamagata

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11:30-11:50	吳世雄 Chitra Mandal	9-O-Acetylated GD3 in Lymphoid and Erythroid Cells / Chitra Mandal
Special Session		
11:50-12:05	李遠川	Mechanism of Human Occurrence of KDN and its Elevated Expression in Certain Cancer Cells / Sadako Inoue
12:05-12:35		My 30 Years Devotion to N-Linked Oligosaccharide Structure Analysis / Noriko Takahashi
Session 5. Sialic Acids, Lipopolysaccharides, Vaccine and Viral Agglutinins		
Plenary lecture 6 13:30-14:10	Roland Schauer James C. Richards	Receptor Binding Specificity of H5N1 Highly Pathogenic Avian Influenza Viruses - Detecion of the Initial Molecular Signals for next Influenza Pandemic / Yasuo Suzuki
14:10-14:30		Polysialic Acid Bioengineering of Cancer and Neuronal Cells by N-acyl Sialic Acid Precursor Treatment / H. Jennings
14:30-14:50		Towards an LPS-Based Vaccines to Protect against Meningococcal Disease / James C. Richards
14:50-15:10		Molecular Mechanism on the Interactions of Flaviviruses with Host Cells / Kazuya Hidari

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Session 6. Adhesion Molecules/ Microbial, Plant and Animal Lectins (I)		
Plenary lecture 7 09:00-09:40	Reiji Kannagi Pamela Stanley	Functional Roles of Carbohydrate Determinants in Cancer Progression / Reiji Kannagi
Plenary lecture 8 09:40-10:10	Reiji Kannagi Pamela Stanley	Roles of N- and O-Glycans in Development and Notch Signaling / Pamela Stanley
10:10-10:30		Vascular Adhesion of Colon Carcinoma Cells: Roles of CD44v and Alternative Sialofucosylated Selectin Ligands / Konstantinos Konstantopoulos
Session 7. Adhesion Molecules/ Microbial, Plant and Animal Lectins (II)		
Plenary lecture 9 10:50-11:20	張南驥 Fu-Tong Liu	Galectins in Regulation of Apoptosis / Fu-Tong Liu
11:20-11:40		The Five Bacterial Lectins: PA-II, PA-III, RSL, RS-III and CV-III Interactions with Diverse Animal Cells and Glycoproteins / Nechama Gilboa-Garber
11:40-12:00		Interaction and Biological Activities of Different Glycosylated Isoforms of Mistletoe Lectins with Lectin Targets and Antibodies / Uwe Pfüller
12:00-12:20		Molecular Characterization of A Novel Mammalian Lectin Ym1 / 張南驥

7 月 12 日

Session 8. Functions of Glycans and Glyco-enzymes (III)		
Plenary lecture 10 09:00-09:40	鄭偉杰 Dipak K. Banerjee	The N-Linked Sugar Chains of Immunoglobulin G: Their Unique Pattern and their Functional Roles / Akira Kobata
09:40-10:00		Enzymes that Synthesize Mucin Glycan Branch Structures / Pi-Wan Cheng
10:00-10:20		Mannosylphospho Dolichol Synthase and its Role in Angiogenesis / Dipak K. Banerjee
Session 9. Roles of Glycosphingolipids and Glycan		
10:40-11:00	Subhash C. Basu Alessandro Prinetti	Role of Gangliosides and of Plasma Membrane Associated Sialidase in the Process of Cell Membrane Organization / Sandro Sonnino
11:00-11:20		Aberrant Glycosphingolipid Expression and Membrane Organization in Tumor Cells: Consequences on Tumor-Host Interactions / Alessandro Prinetti
11:20-11:40		Regulation of Glycolipid Glycosyltransferases in Apoptotic Breast Carcinoma Cells / Subhash C. Basu
11:40-11:55		On the Differential Sialic Acid Specificity of Lectins from Different Parts of Saraca indica / B. P. Chatterjee

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11:55-12:10	Subhash C. Basu Alessandro Prinetti	Profiling of Polysaccharides by Recombinant Innate Immunity Receptor.Fc Fusion Proteins／ 謝世良
12:10-12:25		Role of Glycoproteins on Spontaneous Tolerance in Rat Orthotopic Liver Transplantation by Functional Proteomics／ 潘台龍
12:25-12:40		Heparan Sulfate Modified CD44V3 Isoform Mediated MMP-7 Proteolysis Involved in Neuron Protection and Neuroblastoma Formation／ 游偉綸
12:40-13:00		Closing Remarks and Announcements／ Pamela Stanley, Akira Kobata, 邱繼揮, Pi-Wan Cheng

主辦單位：本院生物化學研究所、長庚大學醫學院

協辦單位：長庚紀念醫院、醣質科學基金會、國家科學委員會

參考網址：http://www.bc.sinica.edu.tw/talk_sinica/poster.jpg