

**JOINT JAPAN-CCRC SYMPOSIUM:
“NEW INSIGHTS INTO THE DYNAMIC FUNCTIONS OF GLYCAN”
(11TH HGPI MEETING)**

SPONSORED BY:

CORE-TO-CORE PROGRAM OF THE JAPANESE SOCIETY OF PROMOTION OF SCIENCE, "HUMAN DISEASE-RELATED FUNCTIONAL GLYCOMICS INITIATIVE"
OSAKA UNIVERSITY/RIKEN GLOBAL COE PROGRAM, "FRONTIER BIOMEDICAL SCIENCE UNDERLYING ORGANELLE NETWORK BIOLOGY"
COMPLEX CARBOHYDRATE RESEARCH CENTER, THE UNIVERSITY OF GEORGIA

THURSDAY, MARCH 4, 2010

8:50 AM WELCOME

9:00 LIANCHUN WANG COMPLEX CARBOHYDRATE RESEARCH CENTER, UGA

HEPARAN SULFATE IS REQUIRED FOR CELL FATE COMMITMENT OF EMBRYONIC STEM CELLS

9:30 NAOYUKI TANIGUCHI DEPARTMENT OF DISEASE GLYCOMICS, THE INSTITUTE OF SCIENTIFIC AND INDUSTRIAL RESEARCH, OSAKA UNIVERSITY

THE ROLE OF FUT 8 IN THE PATHOGENESIS OF CHRONIC OBSTRUCTIVE LUNG DISEASE (COPD)

10:00 HEATHER FLANAGAN-STEET COMPLEX CARBOHYDRATE RESEARCH CENTER, UGA

ALTERATIONS IN EXTRACELLULAR MATRIX COMPOSITION UNDERLIE ABERRANT CHONDROGENESIS IN A ZEBRAFISH MODEL FOR MUCOLIPIDOSIS II

BREAK

11:00 YOSHINAO WADA DEPARTMENT OF MOLECULAR MEDICINE, RESEARCH INSTITUTE, OSAKA MEDICAL CENTER FOR MATERNAL AND CHILD HEALTH

QUANTITATION OF SACCHARIDE COMPOSITIONS OF MUCIN-TYPE O-GLYCANS BY MASS SPECTROMETRY OF GLYCOPEPTIDES AND ITS APPLICATION TO CDG AND RHEUMATOID ARTHRITIS

11:30 HUA-BEI GUO COMPLEX CARBOHYDRATE RESEARCH CENTER, UGA

CADHERIN FUNCTION IS REGULATED BY CHANGES IN N-LINKED GLYCAN EXPRESSION

**12:00 PM TAROH KINOSHITA IMMUNOLOGY, FRONTIER RESEARCH CENTER/
DEPARTMENT OF IMMUNOREGULATION, RESEARCH INSTITUTE FOR MICROBIAL DISEASES, OSAKA UNIVERSITY**

REMODELING OF GPI-ANCHOR GLYCAN AND LIPID

12:30 LUNCH

1:30 YOSHIKI YAMAGUCHI STRUCTURAL GLYCOBIOLOGY TEAM, SYSTEMS GLYCOBIOLOGY RESEARCH GROUP, CHEMICAL BIOLOGY DEPT., RIKEN ASI

NMR APPROACHES FOR STRUCTURAL ANALYSIS OF LARGE GLYCOPROTEINS

2:00 ADAM BARB COMPLEX CARBOHYDRATE RESEARCH CENTER, UGA

ACCESSIBILITY AND DYNAMICS OF SIALYL GLYCANS ON IGG BY NMR

**2:30 TAKESHI ISHIMIZU LABORATORY OF BIOCHEMISTRY AND ORGANIC CHEMISTRY,
DEPARTMENT OF CHEMISTRY, OSAKA UNIVERSITY**

GLYCOSYL HYDROLASE COMPLEX IN PLANT VACUOLE

BREAK

THURSDAY, MARCH 4, 2010 (CONTINUED)

3:30 PM HISASHI ARASE IMMUNOCHEMISTRY, FRONTIER RESEARCH CENTER/
DEPARTMENT OF IMMUNOCHEMISTRY, RESEARCH INSTITUTE FOR
MICROBIAL DISEASES, OSAKA UNIVERSITY

CRUCIAL ROLE OF GLYCAN-BINDING RECEPTORS IN HERPESVIRUS INFECTION

4:00 PAMELA THOMPSON COMPLEX CARBOHYDRATE RESEARCH CENTER, UGA

A FULLY SYNTHETIC CARBOHYDRATE-BASED VACCINE FOR CANCER

4:30 TADASHI SUZUKI GLYCOMETABOLOME TEAM, SYSTEMS GLYCOBIOLOGY RESEARCH
GROUP, CHEMICAL BIOLOGY DEPARTMENT, RIKEN ASI

FREE OLIGOSACCHARIDES AS AN ERAD MARKER IN *SACCHAROMYCES CEREVISIAE*

5:00 KAREN ABBOTT COMPLEX CARBOHYDRATE RESEARCH CENTER, UGA

GLYCOPROTEOMIC STRATEGIES TO DISCOVER POTENTIAL BIOMARKERS FOR CANCER DETECTION

ADJOURN

FRIDAY, MARCH 5, 2010

9:00 AM SHINOBU KITAZUME DISEASE GLYCOMICS TEAM, SYSTEMS GLYCOBIOLOGY RESEARCH
GROUP, CHEMICAL BIOLOGY DEPARTMENT, RIKEN ASI

AN α 2,6-SIALIC ACID ON PLATELET ENDOTHELIAL CELL ADHESION MOLECULE (PECAM)
REGULATES ITS HOMOPHILIC INTERACTIONS AND DOWNSTREAM ANTI-APOPTOTIC SIGNALING

9:30 ALISON NAIRN COMPLEX CARBOHYDRATE RESEARCH CENTER, UGA

TRANSCRIPT ANALYSIS OF GLYCAN-RELATED GENES

10:00 TAKASHI ANGATA DEPARTMENT OF BIOCHEMISTRY, GRADUATE SCHOOL OF MEDICINE,
GLOBAL COE PROGRAM: FRONTIER BIOMEDICAL SCIENCE
UNDERLYING ORGANELLE NETWORK BIOLOGY

SIALIC ACID AS A "SELF" SIGNATURE

BREAK

11:00 STEPHANIE STALNAKER COMPLEX CARBOHYDRATE RESEARCH CENTER, UGA

O-MAN: UNUSUAL GLYCANS INVOLVED IN CONGENITAL MUSCULAR DYSTROPHY

11:30 KAZUAKI OHTSUBO DEPARTMENT OF DISEASE GLYCOMICS, THE INSTITUTE OF SCIENTIFIC
AND INDUSTRIAL RESEARCH, OSAKA UNIVERSITY

PANCREATIC BETA CELL GLYCOSYLATION INTEGRATES DIET AND GENE EXPRESSION IN THE
PATHOGENESIS OF TYPE 2 DIABETES

12:00 KAZUHIRO AOKI COMPLEX CARBOHYDRATE RESEARCH CENTER, UGA

DEVELOPMENTALLY REGULATED GLYCAN EXPRESSION

ADJOURN