

The First Symposium of Japanese Consortium for Glycobiology and Glycotechnology
Integration from functional analyses of sugar chains to systems glycobiology

November 4, 2003

Tokyo Conference Center

Organizer: Naoyuki Taniguchi, Akemi Suzuki (JSCR)

Hiroo Imura (Council for Science and Technology Policy, Cabinet Office)
— Policy for the development of Japanese life sciences

Chairperson: **Akemi Suzuki** (RIKEN Frontier Group Director)

Keynote address **Yoshitaka Nagai** (Mitsubishi Kagaku Institute of Life Sciences)

- *JAPAN CONSORTIUM FOR GLYCOSCIENCES (JCGS) :*
Coming developments in glycobiology and glycotechnology

OPSR/Kiko **Tatsuro Irimura** (Tokyo University)

- *Diagnosis and therapy with genetically engineered lectin libraries*

PGST **Yasuyuki Igarashi** (Hokkaido University)

- *Sphingolipid biology and postgenomic research in Hokkaido*

RIKEN Frontier **Akemi Suzuki** (RIKEN)

- *Mass spectrometry and DNA microarray for glycobiology*

Chairperson: **Koichi Furukawa** (Head Investigator, MEXT Research Project "Glycomics")

MEXT Research Project "Glycomics"

Koichi Furukawa (Nagoya University)

- *Molecular mechanisms for the diseases based on the carbohydrate disorders*

Toshisuke Kawasaki (Kyoto University)

- *Modulation of protein functions by glycans*

Koji Kimata (Aichi Medical University)

- *Functional control of molecular complexes by carbohydrates*

Chairperson: **Naoyuki Taniguchi** (CREST project leader)

CREST Project

Reiji Kannagi (Aichi Cancer Center)

- *Cell-cell interactions mediated by carbohydrate determinants*

Yasuo Suzuki (University of Shizuoka)

- *Functional glycomics of viral infection and its application for the antiviral drugs*

Shoko Nishihara (Soka University)

- *Drosophila functional glycomics*

Yukishige Ito (RIKEN)

- *Synthetic approaches to the mechanism of glycoprotein quality control*

Nobuto Koyama (Takara Bio Inc.)

- *Suppression of viral gene expression by a glycosyltransferase*

Makoto Kiso (Gifu University)

- *Chemical glycobiology: A synthetic approach*

Chairperson: **Hisashi Narimatsu** (Deputy Director, Research Center for Glycoscience, AIST)

NEDO Project

Hisashi Narimatsu (AIST)

- *Comprehensive study on glycogenes with the aid of bioinformatics technology*

Jigami Yoshifumi (AIST)

- *Toward the comprehensive expression of human glycosyltransferase genes in yeast as a tool for sugar chain synthesis*

Shinichiro Nishimura (Hokkaido University)

- *Development of efficient glycoconjugate synthetic methods and application to medical science*

Jun Hirabayashi (AIST)

- *Lectin-based glycan profiling*

Katutoshi Takahashi (AIST)

- *Development of mass spectrometry toward glycoproteomics*

Akihiko Kameyama (AIST)

- *Recent advance of carbohydrate structure analysis using mass spectrometry*

Osamu Kanie (Mitsubishi Kagaku Institute)

- *Development of new structural elucidation method for oligosaccharides*

Closing Remarks

Hironobu Hashimoto (President, JSCR)