# Session I. Protein Interaction (August 7th 9:00~12:00)

9:00-9:30	Floyd E. Romesberg (The Scripps Research Institute, USA)
	The Evolution of Biomolecular Function
	(Chair: Ikuo Fujii, Osaka Prefecture University)
9:30-10:00	Masayuki Matsushita (Chugai Pharmaceutical Co., Ltd, Japan)
	Blue Fluorescent Antibody Sensors
	(Chair: Ikuo Fujii, Osaka Prefecture University)
10:00-10:30	Kai Johnsson (Ecole Polytechnique Federale de Lausanne, Switzerland)
	Observing and Manipulating Proteins in Living Cells
	(Chair: Ikuo Fujii, Osaka Prefecture University)
10:30-11:00	Coffee Break
11:00-11:30	Andrew Woolley (University of Toronto, Canada)
	Designing Photo-controlled Peptides and Proteins
	(Chair: Hisakazu Mihara, Tokyo Institute of Technology)
11:30-12:00	Jaehoon Yu (Seoul National University, Korea)
	Generation of RNA Specific ligands & Their Usages As Versatile Chemical Tools
	(Chair: Hisakazu Mihara, Tokyo Institute of Technology)

### Session II. Functional DNA/RNA(August 7th 14:00~17:00)

- 14:00~14:40Philip C. Bevilacqua (Pennsylvania State University, USA)General Acid-Base Catalysis and pKa Shifting in RNA Enzymes<br/>(Chair: Shu-ichi Nakano, Konan University)
- 14:40~15:20Larry W. McLaughlin (Boston College, USA)Use of Nucleotide Analogues to Probe DNA Structure and Function<br/>(Chair: Kazuya Koumoto, Konan University)

15:20~15:40 Coffee Break

- 15:40~16:20 Nichokas V. Hud (Georgia Institute of Technology, USA) Controlling Nucleic Acid Assembly by Small Molecule Binding (Chair: Daisuke Miyoshi, Konan University)
- 16:20~17:00 Dipankar Sen (Simon Fraser University, Canada) Light as Cofactor and Substrate in the Chemistry and Biology of DNA and RNA (Chair: Takehiko Wada, Osaka University)

### Session III. Metals in Chemical Biology (August 8th 9:00~12:00)

9:00~9:40	Takashi Hayashi (Osaka University, Japan)	
	Functionalization of Hemoproteins by Chemical Modification of Prosthetic Groups	
	(Chair: Mitsuhiko Shionoya, University of Tokyo)	
9:40~10:20	Thomas Carell (Ludwig-Maximilians-Universität, München, Germany)	
	DNA Repair and Mutagenic Replication of DNA Lesions	
	(Chair: Mitsuhiko Shionoya, University of Tokyo)	
10:20~10:40	Coffee Break	
10:40~11:20	Kazuya Kikuchi (Osaka University, Japan)	
	Design, Synthesis and Biological Application of Fluorescent Probes which Convert Biological Responses to Chemical	
	Output	
	(Chair: Hitoshi Ishida, Kitasato University)	
11:20~12:00	Thomas V. O'Halloran (Northwestern University, USA)	
	Inorganic Battlegrounds in Infectious Disease: Zinc and Iron Chemistry of Malaria Parasite	
	(Chair: Hitoshi Ishida, Kitasato University)	

### Session IV. Cell Function of Macromolecules (August 8th 14:00~17:00)

- 14:00~14:40
   Stefan Matile (University of Geneva, Switzerland)

   Synthetic Functional Architecture in Lipid Bilayers:
   From Porous Sensors to Smart Photosystems and cytosolic delivery

   (Chair: Shiroh Futaki, Kyoto University)
- 14:40~15:20 Jean Gariepy (University of Toronto, Canada) Design and Mining of Combinatorial Toxin Libraries to Identify Anticancer Agents (Chair: Takeshi Nagasaki, Osaka City University)
- 15:20~15:40 Coffee Break
- 15:40~16:20 Geert-Jan Boons (The University of Georgia, USA) Increasing the Antigenicity of Tumor Associated Carbohydrates by Targeting Toll-like Receptors (Chair: Koichi Fukase, Osaka University)
- 16:20~17:00 Injae Shin (Yonsei University, Korea) Carbohydrate Microarrays for Glycomics Research (Chair: Toshinori Sato, Keio University)

# Session V. Nanobiotechnology and Technology Innovation in Biomolecular Chemistry (August 9th 9:00~12:00)

9:00-9:40	Constantinos A. Varotsis (University of Crete, Greece)	
	Probing the Q-Proton Pathway and Docking site Dynamics of ba3-Oxidoreductase by Time-Resolved Step-scan Fourier	
	Transform Infrared Spectroscopy	
	(Chair: Shun Hirota, Kyoto Pharmaceutical University)	
9:40-10:20	Shoji Takeuchi (The University of Tokyo, Japan)	
	Membrane Protein Chips	
	(Chair: Yoshinobu Baba, Nagoya University)	
10:20-10:40	Coffee Break	
10:40-11:20	Rainer Haag (Free University of Berlin, Germany)	
	Functional Dendritic Architectures for Biomedical Applications	
	(Chair: Keigo Aoi, Nagoya University)	
11:20-12:00	Haesik Yang (Pusan National University, Korea)	
	An Electrochemical Immunosensor Using Carbon Nanotube Film	
	(Chair: Shigeori Takenaka, Kyushu Institute of Technology)	

**Tentative Program of ISBC2006** 

Poster Presentation (August 7th 12:00 ~ 14:00 and 8th 12:00 ~ 14:00)