

Organizers: Yuriko Yamagata (Graduate School of Pharmaceutical Sciences, Kumamoto University)
Shigeharu Harada (Faculty of Textile Science, Kyoto Institute of Technology)

In April 2003 the successful completion of the Human Genome Project more than two years ahead of schedule was announced by the International Human Genome Project Consortium. Now we are in the postgenomic era. For several years, scientists have been turning their attention to gene products, the proteins that are critical in maintaining an organism's health. New fields are emerging in this postgenomic era of protein analysis. One of them is structural genomics. In Japan the five-year "Protein 3000 Project" started in April 2002 to analyze the structure and functionality of more than 3,000 different proteins, roughly one-third of basic structures of all proteins. In this symposium, presentations on the R&D of key technologies for structure determination, structural bases of biological mechanism, and applications of structure-based design and structural genomics in drug discovery will be given. We will discuss large-scale changes in research due to advances in structural genomics.