Friday, October 22, 2004 13:00~

Session I

- **Mechanical stress-induced signaling of osteoblast differentiation**
  Toshio Matsumoto Department of Medicine and Bio-regulatory Sciences, University of Tokushima Graduate School of Medicine
- **Genetic Control of Bone Formation**
  Gerard Karsenty Department of Molecular and Human Genetic, Baylow College of Medicine

Session II

- **Phosphate regulation of bone and cartilage metabolism**
  Toshiyuki Yoneda Department of Biochemistry and Molecular Biomedicine, Osaka University, Graduate School of Dentistry
- **Phex, MEPE and FGF23: Evidence for a Bone-Kidney Axis Regulating Phosphate Homeostasis**
  Leigh Darryl Quarles Department of Internal Medicine, University of Kansas

Session III

- **Pathophysiological roles of FGF-23 in phosphate metabolism**
  Seiji Fukumoto The University of Tokyo Hospital
- **Mechanism of molecular regulatory system in inorganic phosphate transporter family**
  Ken-ichi Miyamoto Nutritional Science, Department of Nutrition, School of Medicine, Tokushima University

Session IV

- **Role of Notch signaling in osteoblast differentiation**
  Akira Yamaguchi Tokyo Medical and Dental University
- **Proliferation, differentiation, and apoptosis in chondrocytes**
  Toshihisa Komori Nagasaki Graduate School of Medicine

Saturday, October 23, 2004 8:30~

Plenary Lecture

- **Single Molecule Nano-Bioscience**
  Toshio Yanagida Graduate School of Frontier Biosciences, Osaka University

Session V

- **Nuclear receptor function and bone remodeling**
  Shigeaki Kato Institute of Molecular and Cellular Bioscience, Tokyo University
- **Nuclear receptor-cofactor interactions as targets for new drug discovery**
  Donald P. McDonnel Pharmacology and Molecular Therapeutics, Duke University
- **Regulation of TGF-β / BMP signaling by E3 Ubiquitine Ligases**
  Takeshi Imamura Department of Biochemistry, The JFCR Cancer Institute

Session VI

- **LRP5 and Bone Metabolism**
  Takayuki Hosoi Tokyo Metropolitan Hospital for Geriatrics
- **Pathogenesis of Rheumatoid Arthritis –contribution of quality control of proteolytic process–**
  Toshihiro Nakajima Institute of Medical Science, St. Marianna University School of Medicine

Session VII

- **Vacuolar-type proton ATPase in osteoclast: its unique composition expression and localization**
  You Wada The Institute of Scientific and Industrial Research, Osaka University
- **Regulation of osteoclastogenesis by RANKL and ITAM signals**
  Hiroshi Takayanagi Tokyo Medical and Dental University