

NIH-JSPS Joint Symposium
Frontiers in 21st Century Biomedical Science:
Highlights from Japan and the United States

November 6 and 7, 2006, Masur Auditorium

November 6

8:30 - 8:45 Opening Remarks
Kenneth Bridbord, MD, Fogarty International Center, National Institutes of Health
Akira Masaïke, Ph.D., Director of the JSPS Washington D.C. Office
A Representative from the JSPS Headquarters Office, Tokyo, Japan

Session I: Immunobiology, Signaling, and Medicine

Chair: Keiko Ozato, PhD

8:45 - 9:15 **Thomas Waldmann, MD**, NCI, NIH, USA
Advances in Monoclonal Antibody-mediated Immunotherapy of Cancer and Autoimmune Diseases

9:15 - 9:45 **Tasuku Honjo, MD, PhD**, Kyoto University, Japan
Molecular Mechanism for Antibody Memory

9:45 - 10:15 **Toshio Hirano, MD, PhD**, Riken and Osaka University, Japan
Zinc Signaling Regulates Epithelial-Mesenchymal Transition and Activation of Immune Cells: Is Zinc a Novel Second Messenger?

10:15-10:45 Coffee Break

Session II: Chromatin and Cell Function

Chair: Tasuku Honjo, MD, PhD

10:45 -11: 15 **Shelley Burger, PhD**, The Wistar Institute, Philadelphia, USA
Post-translational Modifications of Histones and Factors in Genomic Regulation

11:15 -11:45 **Keiko Ozato, PhD**, NICHD, NIH, USA
Epigenetic Memory and Bromodomain Proteins

11:45- 12:15 **Kenneth Zaret, PhD**, Fox Chase Cancer Center, Philadelphia, USA
Genomic Targeting of Genetic and Epigenetic Control

12:15 -2:45 **Lunch and Poster Presentations (38 posters from Intramural programs)**

Session III: Signaling and Cell Interactions

Chair: Yoshi Yamada, PhD

2:45 - 3:15 **Joseph Schlessinger, PhD**, Yale University, New Haven, USA

Cell Signaling by Receptor Tyrosine Kinases: From Bench to Bedside

3:15 - 3:45 **Masatoshi Takeichi, PhD**, Center for Developmental Biology, Riken, Kobe, Japan
Cadherin Dynamics at Cell Junctions

3:45 - 4:15 **Atsushi Miyawaki, PhD**, The Brain Science Institute, Riken, Wako, Japan
New Fluorescent Probes and New Perspectives in Bioscience

4:15 - 4:40 Coffee Break

Session IV: Stem Cells and Differentiation

Chair: Igor Dawid, PhD

4:40 - 5:10 **Gerard Karsenty, PhD**, Columbia University, New York, USA
Reciprocal Regulation of Bone and Energy Metabolism

5:10 - 5:40 **Ron McKay, PhD**, NINDS, NIH, USA
Controlling Stem Cell and Neuronal Survival in the Central Nervous System

November 7

Session V: Genetics and Development

Chair: Susan Gottesman PhD

8:30 - 9:00 **Amar Klar, PhD**, NCI-Frederick, NIH, USA
Biased Segregation of DNA Strands in Mitosis and Implications for Cancer and General Development

9:00 - 9:30 **Nobutaka Hirokawa, MD, PhD**, Tokyo University, Japan
Intracellular Transport and Kinesin Superfamily Proteins, KIFs:
Structure, Dynamics, and Functions

9:30 - 10:00 **Brant Weinstein, PhD**, NICHD, NIH, USA
Vascular Embryogenesis in the Zebrafish

10:00 - 10:30 Coffee Break

Session VI: Genomics from Bacteria to Humans

Chair: Nobutaka Hirokawa, MD, PhD

10:30 - 11:00 **Richard Young, PhD**, The Whitehead Institute, Cambridge, USA
Human Transcriptional Regulatory Circuitry

11:00 - 11:30 **Susan Gottesman, PhD**, NCI, NIH, USA
The World of Non-coding RNAs in Bacteria

11:30 - 11:45 Closing Remarks

Michael Gottesman, MD, Deputy Director for Intramural Research, NIH

Organizing Committee:

JSPS

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Akira Masaïke (JSPS Washington Office)

NIH

Michael Gottesman (Office of the Director)

Sharon Hrynkow (Fogarty International Center)

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Igor B. Dawid (NIH)

Thomas Waldmann (NIH)

Yoshi Yamada (NIH)

Masatoshi Takeichi (Riken Kobe)

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