

DRAFT

NIH-Japan-JSPS Symposium
-Highlights from the frontier of biomedical science from NIH and Japan
NIH, Bethesda, MD (October 23-24, 2014)

Thursday, October 23, 2014
Lipsett auditorium (Bldg. 10)

8:00 a.m. Registration

8:30 a.m. **Opening remarks** (5min each)

Moderator: Keiko Ozato (NICHD)

Michael Gottesman (NIH),

Noriaki Ohuchi (Tohoku Univ. Graduate School of Medicine),

Osamu Shimomura (JSPS Washington Office)

Sessions: 30 min each presentation including discussion (talk 25 min/discussion 5 min)

8:50 a.m. **Session 1: Disease and Metabolism**

Chair: Tom Misteli (NCI)

Noriko Osumi (Tohoku Univ. Graduate School of Medicine, Dept. of Neurogenesis):

“Brain development and mental diseases: genetic and epigenetic mechanisms”

Toren Finkel (NHLBI, Lab. of Molecular Biology):

"Molecular mechanisms of mammalian aging"

9:50 a.m. **Session 2: Stem Cells and Regeneration**

Chair: Shioko Kimura (NCI)

Hiromitsu Nakauchi (Univ. of Tokyo, Center for Stem Cell Biology and Regenerative Medicine):

“Generation of functional organs from iPS cells”

Cynthia Dunbar (NHLBI, Hematology Branch):

“Clonal interrogation of rhesus hematopoiesis reveals a distinct ontogeny for the major population of natural killer cells”

10:50 a.m. Coffee break (Lipsett lobby)

11:20 a.m. **Session 3: Host Immunity and Microbes**

Chair: Kathy Zoon (NIAID)

Takashi Fujita (Kyoto Univ. Institute for Virus Research, Dept. of Molecular Genetics):

“Antiviral innate immunity in health and disease”

Yasmine Belkaid (NIAID, Lab. of Parasitic Diseases):

“Role of the microbiota in tissue immunity”

12:20 p.m. Lunch

FAES dinning room in Bldg. 10 (professors from Japan and NIH investigators)

1:30 p.m. **Session 4: Transcriptional regulation of innate immunity**
Chair Robert Adelstein (NHLBI)
Kazuhiko Igarashi (Tohoku Univ. Graduate School of Medicine, Dept. of Biochemistry):
“Regulation of acquired and innate immune cells development by Bach transcription factors”
Keiko Ozato (NICHD, Section on Molecular Genetics of Immunity):
“Transcriptional memory in innate immunity”

Session 5: Imaging of cellular and protein dynamics

Chair: Wei Yang (NIDDK)

Toshio Ando (Kanazawa Univ. Department of Physics & Bio-AFM Frontier Research Center):

"Filming dynamic biomolecular and cellular processes by high-speed AFM"

Kenneth Yamada (NIDCR, Lab. of Cell and Developmental Biology)

“Dynamics of Cell-Matrix Interactions in Development and Cancer”

3:30 p.m. Session closing remarks: Yoshi Yamada (NIDCR)

3:30-6:00 p.m. **Poster session** (FAES terrace)
Refreshments (FAES terrace)

7:00 p.m. Reception at Pamela Robey’s house near NIH (professors from Japan, NIH investigators, JSPS, SDs)

Social gathering in a restaurant in Bethesda for young investigators/students from Japan and Japanese NIH fellows/young investigators

Friday, October 24, 2014

8:30 a.m.-12:30 p.m.
Workshops Lipsett and FAES class rooms (Bldg. 10)
Moderator- Reiko Toyama (NICHD)

8:30-10:00 a.m.
Workshop 1: Lipsett or FAES rooms

Recovery from the Great Tohoku Earthquake and Fukushima nuclear plant disaster

Chair: Kiyohiko Mabuchi (NCI, Div. of Cancer Epidemiology and Genetics, Chernobyl Research Unit), *Hitoshi Oshitani* (Tohoku Univ. Graduate School of Medicine, Dept. of Virology)

Speaker: **Yoshio Hosoi** (Tohoku Univ. Graduate School of Medicine, Lab. for Radiation Biology)

Shinichi Kuriyama (Tohoku Univ. Graduate School of Medicine,
Epidemiology, Megabank)
Kiyohiko Mabuchi (NCI, Radiation Epidemiology Branch)

10:00 a.m. Over view: Kathryn Zoon (NIAID)
Poster award and certificate ceremony: Michael Gottesman

10:15 a.m. Coffee break (FAES terrace, Bldg.10)

10:30 a.m.-12:30 p.m.: **Concurrent workshops 2-4** (FAES class room in Bldg. 10)
(20 min talk/10 min discussion) four speakers: three NIH speakers,
one speaker from Tohoku University in each workshop.

Workshop 2: FEAS rooms

Stem cell, neuroscience, and development

Chair: Yoshi Yamada (primary coordinator & chair, NIDCR),
Pamela Robey (NIDCR), *Noriko Osumi* (Tohoku Univ.)

Speaker: **Yosuke Mukoyama** (NHLBI)
Pamela Robey (NIDCR)
Yoshi Yamada (NIDCR)
Keiichi Itoi (Tohoku Univ.)

Workshop 3: FAES rooms

Imaging and protein-protein interaction

Chair: Kiyoshi Mizuuchi (primary coordinator & chair, NIDDK),
one from Tohoku Univ.

Speaker: **Kiyoshi Mizuuchi** (NIDDK)
Hari Shroff (NIBIB)
Prabs Sengupta (NICHD)
Investigator from Tohoku Univ.

Workshop 4: FAES rooms

Cancer and therapy

Chair: Hisataka Kobayashi (primary coordinator & chair, NCI),
one from Tohoku Univ.

Speaker: **Hisataka Kobayashi** (NCI)
Thomas Waldmann (NCI)
Mitchell Ho (NCI)
Kouetsu Ogasawara (Tohoku Univ.)

12:30 p.m. Lunch

FAES dinning room in Bldg.10 (professors from Japan, NIH investigators, JSPS)

1:30 p.m. NIH Lab tour

3:00 p.m. Meeting with Gottesman in Bldg. 1 (professors from Japan, NIH investigators, JSPS)

4:30 p.m. Workshop on career development in Bldg. 37, NCI (Japanese NIH fellows/investigators, professors from Japan, JSPS)

6:30 p.m. Social gathering in a restaurant in Bethesda

1) Professors from Japan, Japanese NIH fellows/investigators, JSPS

2) Students/young investigators from Japan, NIH investigators, JSPS

Program organizing committee members:

Michael Gottesman (NIH Deputy Director for Intramural Research),

Osamu Shimomura (Director, JSPS Washington Office),

Robert Adelstein (NHLBI),

*Fabio Candotti, (NHGRI),

Shioko Kimura (NCI),

Tom Misteli (NCI),

Keiko Ozato (NICHD),

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Reiko Toyama (NICHD),

Yoshi Yamada (NIDCR),

Wei Yang (NIDDK),

Kathryn Zoon (NIAID)

* previous member

Sponsors: JSPS, FAES, FIC, NCI, NHLBI, NIAID, NICHD, NIDCR, and NIDDK

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