



Global COE International Symposium 2011 Program

※Speaker's Affiliation

IGDB: Institute of Genetics and Developmental Biology, Chinese Academy of Sciences

UCD: College of Biological Sciences, University of California, Davis

NAIST: Graduate School of Biological Sciences, Nara Institute of Science and Technology

November 7 (Mon) 2011

16:00-16:10 Welcome address: **Akira Isogai** (NAIST, President)

16:10-17:40 **Key lectures**

Chair: **Hisaji Maki**

O-01 Ko Shimamoto (NAIST)

Achievements in the Global COE program in NAIST

O-02 Carol Erickson (UCD)

Lineage switching in the neural crest

O-03 Yongbiao Xue (IGDB)

Cellular control of S-RNase-based self-incompatibility in flowering plants

18:00-20:00 **Reception**

November 8 (Tue) 2011

10:00-11:20 **Session 1 (Microbiology)**

Chair: **Kaz Shiozaki**

O-04 Hisaji Maki (NAIST)

Origins of spontaneous mutations: Positive and negative roles of DNA repair

O-05 Neil Hunter (UCD)

Implementing a crossover outcome during meiotic recombination

O-06 Kenji Kohno (NAIST)

A novel translational pausing in the endoplasmic reticulum stress response

O-07 Hiroshi Takagi (NAIST)

Novel molecular mechanisms of yeast enzymes involved in stress tolerance: NO and ubiquitin system

11:20-11:40 Break

11:40-12:20 **Session 2 (Plant biology)**

Chair: **Masaaki Umeda**

O-08 Keiji Nakajima (NAIST)

The Arabidopsis RWP-RK transcription factor RKD4 triggers pattern formation in early embryogenesis

O-09 Siobhan Brady (UCD)

Mapping spatiotemporal gene regulatory networks in the Arabidopsis root stele

12:20-14:00 Lunch

14:00-15:20 **Session 3 (Biomedicine)**

Chair: **Yasumasa Bessho**

O-10 Xun Huang (IGDB)

Ectopic lipid storage: From disease to mechanisms

O-11 James Hildreth (UCD)

Transcription of HIV genes is linked to cholesterol homeostatic pathways

O-12 Mei Ding (IGDB)

The positive and negative regulators in axon outgrowth

O-13 Yoshiko Takahashi (NAIST)

Ex vivo live-imaging to directly visualize melanin transfer from melanocytes to keratinocytes in the skin

15:20-15:40 Break

15:40-17:00 **Session 4 (Plant biology)**

Chair: **John Harada**

O-14 Toshio Hakoshima (NAIST)

Structural views of plant hormone nuclear receptors

O-15 Fan Chen (IGDB)

ABA signal transduction and function analysis of bZIP transcription factors in plants

O-16 Toshiharu Shikanai (Kyoto University)

Chloroplast NADH dehydrogenase-like complex: structure, function and assembly

O-17 Seiji Takayama (NAIST)

Self/non-self discrimination in plant self-incompatibility

November 9 (Wed) 2011

10:00-11:20 **Session 5 (Neurobiology)**

Chair: **Hiroshi Itoh**

O-18 Kinichi Nakashima (NAIST)

Effect of HDAC inhibitor valproic acid on neural stem cell differentiation and its application for the treatment of spinal cord injury

O-19 Yongqing Zhang (IGDB)

Mental retardation gene *Acs14* regulates axonal transport of synaptic vesicles and is required for synaptic development and transmission

O-20 Naoyuki Inagaki (NAIST)

Analysis of neuronal symmetry breaking by quantitative systems biology

O-21 Hwai-Jong Cheng (UCD)

Pruning and refinement of axonal projections in the developing visual system

11:20-13:00 Lunch

13:00-14:00 **Poster Session I** (odd numbers)

14:00-15:00 **Poster Session II** (even numbers)

15:00-15:20 Break

15:20-16:20 **Session 6 (Plant biology)**

Chair: **Taku Demura**

O-22 Weicai Yang (IGDB)

POD1, a novel ER protein, controls the pollen tube response to female cues in *Arabidopsis*

O-23 Masao Tasaka (NAIST)

Message from endodermis to phloem: Novel cell-cell communication for inflorescence architecture

O-24 John Harada (UCD)

Mapping the seed: Global dissection of gene activity during seed development

16:20-16:40 Concluding remarks: **Yongbiao Xue** (CAS), **Carol Erickson** (UCD)

16:40-16:50 Appreciative notes: **Hisaji Maki** (NAIST)

16:50-17:00 Closing address: **Ko Shimamoto** (NAIST)