

The 8th CDB Meeting
Beauty in Embryology
-Patterning and shaping of the body-
Program

February 3 (Tuesday)

Session 1 "*Pioneers in Science*"

Chairperson: Yoshiko Takahashi (CDB)

- 9:30-10:10 **Cellular and molecular cross-talks
in craniofacial development from the neural crest**
Nicole Le Douarin (CNRS, Collège de France)
- 10:10-10:50 **Neural crest and the origin of ectomesenchyme**
James Weston (Univ. of Oregon, USA)
- 10:50-11:00 *Coffee Break*
- 11:00-11:30 **Aesthetic Appreciation of Beauty in Embryology in my
personal view**
T. S. Okada (Kyoto)
- 11:30-12:00 **Synapses as Cell Junctions**
Masatoshi Takeichi (CDB)
- 12:00- 13:30 *Lunch*

Session 2

Chairperson: Hiroyuki Takeda (Univ. of Tokyo)

- 13:30-14:10 **The genetics of limb development and evolution; Beauty
of shapes, beauty of principles**
Denis Duboule (Univ. of Geneva, Switzerland)
- 14:10-14:40 **Negative feedback loop and proper instability of Hes7 is
essential for the somite segmentation clock**
Yasumasa Bessho (Kyoto Univ.)
- 14:40-15:10 **How do animals get the stripes?**
Shigeru Kondo (CDB)
- 15:10-15:40 **Genetic dissection of somite patterning**
Yumiko Saga (NIG)
- 15:40-16:10 *Coffee Break*

Session 3

Chairperson: Yumiko Saga (NIG)

16:10-16:40 **The segment-shift activity of Hairy-deficient cells reveals a crucial cellular mechanism that controls the segmentation clock**

Hiroyuki Takeda (Univ. of Tokyo)

16:40-17:10 **Boundary formation in organogenesis: control of cell communications and changes in cell polarity**

Yoshiko Takahashi (CDB)

17:10-17:50 **Boundaries and Compartments in the Developing Brain**

Andrew Lumsden (King's College, London)

18:00- *Reception at CDB*

February 4 (Wednesday)

Session 4

Chairperson: Yasumasa Bessho (Kyoto Univ.)

- 9:30-10:10 **Antero-posterior patterning genes during axial elongation in the mouse**
Jacqueline Deschamps (Hubrecht Lab., Netherlands)
- 10:10-10:40 **Inversely graded associations of mammalian polycomb Ring1B and acetylated HistoneH3 associations on *Hoxb7/8/9* region is involved in the maintenance of anterior boundaries of their expression**
Haruhiko Koseki (Chiba Univ.)
- 10:40-11:00 *Coffee Break*
- 11:00-11:30 **Identification and characterization of a zebrafish gene required for proper segmentation of somites**
Shinji Takada (Okazaki National Research Institute)
- 11:30-12:00 **Segmentation in echinoderm**
Koji Akasaka (Hiroshima Univ.)
- 12:00-13:30 *Lunch*

Session 5

Chairperson: Shinji Takada (Okazaki National Research Institute)

- 13:30-14:10 **Development and evolution of the teleost pharyngeal skeleton**
Charles Kimmel (Univ. of Oregon, USA)
- 14:10-14:40 **What do we learn from the lamprey?
– evolution of jaw, hypophysis and the neural crest**
Shigeru Kuratani (CDB)
- 14:40-15:10 **Germ layer tectonics: Dynamic neighbor relation between neural anlage and underlying mesendoderm during early vertebrate morphogenesis**
Kohei Hatta (CDB)
- 15:10- Concluding remarks: Nicole Le Douarin