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
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>16:10-16:40</td>
<td>The segment-shift activity of Hairy-deficient cells reveals a crucial cellular mechanism that controls the segmentation clock</td>
<td>Hiroyuki Takeda (Univ. of Tokyo)</td>
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<td>16:40-17:10</td>
<td>Boundary formation in organogenesis: control of cell communications and changes in cell polarity</td>
<td>Yoshiko Takahashi (CDB)</td>
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<td>17:10-17:50</td>
<td>Boundaries and Compartments in the Developing Brain</td>
<td>Andrew Lumsden (King's College, London)</td>
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<td>18:00-</td>
<td>Reception at CDB</td>
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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 techtonics: Dynamic neighbor relation between neural anlage and underlying mesendoderm during early vertebrate morphogenesis
            Kohei Hatta (CDB)

15:10- Concluding remarks: Nicole Le Douarin