

Program

Tuesday, January 22 (Day 1)

9:00 am Registration

10:00 am Opening Remarks by Takaki Miyata

Session 1 [Tissue Dynamics I]

Chair: Naoto Ueno

10:10 am – 10:40 am

S1-1

Shaping Epithelial Sheet into Three-dimensional Organ

Shigeo Hayashi (RIKEN Center for Developmental Biology, Japan)

10:40 am – 11:00 am

S1-2

Non-autonomous Tissue Growth Regulation by Mitochondrial Dysfunction in *Drosophila*

Shizue Ohsawa (Kobe University, Japan)

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11:00 am – 11:30 am

Coffee Break

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Session 2 [Tissue Dynamics II]

Chair: Noriyuki Kinoshita

11:30 am – 11:50 am

S2-1

Engineering Approach for the Analysis of Stress and Strain in *Xenopus Laevis* Embryo\*

Takeo Matsumoto (Nagoya Institute of Technology, Japan)

11:50 am – 12:10 pm

S2-2

Analysis of Tooth Germ Epithelium Morphogenesis by Four-dimensional Cell Tracking as a Quantitative Kinetic Analysis System\*

Ritsuko Morita (Tokyo University of Science, Japan)

\* Selected talk

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12:10 pm – 1:20 pm      *Lunch*

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**Session 3 [Cell Migration]**

Chair: Kazunori Nakajima

1:20 pm – 1:50 pm

**S3-1**

**Regulation of Lymphocyte “Stop and Go”:  
Analysis of Lymphocyte Trafficking using Live  
Imaging Techniques**

Tatsuo Kinashi (Kansai Medical University, Japan)

1:50 pm – 2:10 pm

**S3-2**

**Nuclear Membrane Proteins Act in Transport of the  
Netrin Receptor, UNC-5, in Cell Migration in *C. elegans*\***

Hon-Song Kim (Kwansei-Gakuin University, Japan)

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2:10 pm – 2:30 pm      *Coffee Break*

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\* Selected talk

## **Session 4 [Tissue Patterning]**

Chair: Shigenobu Yonemura

2:30 pm – 3:00 pm

### **S4-1**

#### **Dorso-Ventral Patterning of the *Drosophila* Epidermis**

François Payre (University of Toulouse, France)

3:00 pm – 3:30 pm

### **S4-2**

#### **Periodic Stripe Formation by a Turing-type Mechanism and a Cryptic Proliferation Peak at a Growth Zone in the Mammalian Palate**

Jeremy B.A. Green (King's College London, UK)

3:30 pm – 4:00 pm

### **S4-3**

#### **Turing Pattern Formation without Diffusion**

Shigeru Kondo (Osaka University, Japan)

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## **Poster Session**

4:00 pm – 6:00 pm

Presenters of **Odd-numbered** posters should be by their panels for discussion from **4:00 pm – 5:00 pm**

Presenters of **Even-numbered** posters should be by their panels for discussion from **5:00 pm – 6:00 pm**

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6:00 pm – 8:00 pm

Reception at CDB Salon

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## Wednesday, January 23 (Day 2)

### Session 5 [Cell Affinity]

Chair: Takashi Miura

9:30 am – 10:00 am

#### **S5-1**

#### **Signals and Mechanics Guiding Cell Sorting in Animal Development**

Christian Dahmann (Technische Universität Dresden, Germany)

10:00 am – 10:30 am

#### **S5-2**

#### **Nectins and Cadherins Cooperatively Regulate the Cellular Rearrangements in the Sensory Organs**

Hideru Togashi (Kobe University, Japan)

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10:30 am – 10:50 am

*Coffee Break*

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### Session 6 [Polarity and Asymmetry I]

Chair: Hitoshi Sawa

10:50 am – 11:20 am

#### **S6-1**

#### **Left-Right Asymmetry Establishment and Morphogenesis in *Drosophila***

Stéphane Noselli (University of Nice Sophia-Antipolis, France)

11:20 am – 11:50 am

#### **S6-2**

#### **Cell-chirality in the Left-Right Asymmetric Morphogenesis**

Kenji Matsuno (Osaka University, Japan)

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11:50 am – 12:10 pm

**S6-3**

**Cellular Dynamics of Collective Cell Movement during the Looping Morphogenesis of *Drosophila* Male Terminalia\***

Erina Kuranaga (RIKEN Center for Developmental Biology, Japan)

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12:10 pm -1:00 pm

*Lunch*

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**Session 7 [Polarity and Asymmetry II]**

Chair: Toshihiko Ogura

1:00 pm – 1:20 pm

**S7-1**

**Prickle and Spiny-legs Ratio Determines the Orientation of Cellular Asymmetry Relative to the Dachsous and Four-jointed Gradients\***

Masakazu Yamazaki (Akita University, Japan)

1:20 pm – 1:40 pm

**S7-2**

**Analysis of Neuronal Symmetry Breaking by Quantitative Systems Biology\***

Naoyuki Inagaki (Nara Institute of Science and Technology, Japan)

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1:40 pm -1:50 pm

*Short Break*

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\* Selected talk

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**Session 8 [Neural Patterning]**

Chair: Kiyoji Nishiwaki

1:50 pm – 2:10 pm

**S8-1**

**Local and Global Inhibitory Cues Define Stereotyped Synaptic Tiling in *C. elegans*\***

Kota Mizumoto (Stanford University, USA)

2:10 pm – 2:40 pm

**S8-2**

**Neuroepithelial-cell Behaviors Optimizing Nuclear Crowding during Brain Development**

Takaki Miyata (Nagoya University, Japan)

2:40 pm – 3:10 pm

**S8-3**

**Cell Behaviour Underlying Neurogenesis in the Chick Spinal Cord**

Kate G. Storey (University of Dundee, UK)

3:10 pm – 3:20 pm

Closing Remarks

\* Selected talk