Monday, March 23 (Day 1)

9:50-10:00 Welcoming Address by Toshio Yanagida

Session 1: Temporal Cell Fate
Chair: Carina Hanashima

10:00-10:30 S1-1
Regulation of neural stem/progenitor cell fate in the developing and adult mouse neocortex
Yukiko Gotoh (The University of Tokyo, Japan)

10:30-11:00 S1-2
Temporal control of neuronal identity in the cerebral cortex
Carina Hanashima (RIKEN Center for Developmental Biology, Japan)

11:00-11:20 S1-3*
Dynamics of Shh interpretation and response by single neural progenitors *in vivo*
Fengzhu Xiong (Harvard Medical School, USA)

11:20-11:50 *Coffee Break*

11:50-12:20 S1-4
Temporal and spatial patterning of neural stem cells
Claude Desplan (New York University, USA)

12:20-12:50 S1-5
From temporal patterning to unique cell fate
Stefan Thor (Linköing University, Sweden)

12:50-13:20 S1-6
Determination of cell fate in the vertebrate retina
Connie Cepko (Harvard Medical School and Howard Hughes Medical Institute, USA)

13:20-14:20 *Lunch*

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*Selected Talks

14:20-15:50 **Poster Session 1**
14:20-15:05 Presenters of Odd-numbered posters
15:05-15:50 Presenters of Even-numbered posters

Session 2: Oscillation and Patterning
Chair: Claude Desplan

15:50-16:20 S2-1
Timing somite formation in the embryo: the segmentation clock
Olivier Pourquié (Harvard Medical School and Brigham and Woman's Hospital, USA)

16:20-16:40 S2-2*
A new model for *Drosophila* segmentation incorporating temporal regulation
Erik Clark (University of Cambridge, UK)

16:40-17:00 S2-3*
How fish clock makes somite
Taijiro Yabe (National Institute for Basic Biology, Japan)

17:00-17:20 *Coffee Break*

17:20-17:50 S2-4
Dynamic control of bHLH factors in multipotent neural stem cells
Ryoichiro Kageyama (Kyoto University, Japan)

17:50-18:20 S2-5
Circadian pacemaker of cyanobacteria by KaiC ATPase
Takao Kondo (Nagoya University, Japan)

18:20-18:40 S2-6*
A damped oscillator governs posterior gap gene patterning in *Drosophila melanogaster*
Berta Verd (Centre for Genomic Regulation (CRG), Spain)

18:40-20:30 Reception at CDB Salon

*Selected Talks

Tuesday, March 24 (Day 2)

Session 2 (continued): Oscillation and Patterning
Chair: Miki Ebisuya

9:30-10:00 S2-7
Segmenting the embryonic body axis with oscillations
Andrew C. Oates (MRC National Institute for Medical Research, UK)

10:00-10:20 S2-8*
Synchronization of coupled genetic oscillators promoted by collective cell movement
Koichiro Uriu (RIKEN, Japan)

10:20-10:50 S2-9
The roles of time in somite formation
Claudio D Stern (University College London, UK)

10:50-11:20 *Coffee Break*

Session 3: Developmental Timing
Chair: Miki Ebisuya

11:20-11:50 S3-1
Timing the beginning: Nuclear/cytoplasmic ratio takes a back seat in timing the MBT
Patrick H. O'Farrell (University of California, San Francisco, USA)

11:50-12:10 S3-2*
Periodic regulation of embryonic body axis elongation revealed by quantitative live imaging and mathematical modeling
Takashi Saitou (Ehime University Hospital, Japan)

12:10-12:30 S3-3*
Understanding timing mechanisms for orderly neuronal connectivity in development and regeneration decline in aging
Chieh Chang (University of Illinois at Chicago, USA)

*Selected Talks

12:30-13:30 Lunch

13:30-15:30 **Poster Session2**
13:30-14:30 Presenters of posters with category "A"
14:30-15:30 Presenters of posters with category "B"

Session 3 (continued): Developmental Timing
Chair: Takashi Nishimura

15:30-16:00 S3-4
***C. elegans let-7* family microRNAs function to coordinate robust developmental timing and innate immune responses during growth on a diet of pathogenic bacteria**
Victor Ambros (University of Massachusetts Medical School, USA)

16:00-16:30 S3-5
Regulation of developmental rate and timing by thyroid hormone receptor
Yun-Bo Shi (Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), NIH, USA)

16:30-17:00 S3-6
Timing processes in the control of molting, metamorphosis, body size and appendage dimensions in insects
H. Fred Nijhout (Duke University, USA)

17:00-17:20 *Coffee Break*

17:20-17:50 S3-7
Defining the molecular mechanisms that modulate metamorphic timing in *Drosophila*
Michael B. O'Connor (University of Minnesota, USA)

17:50-18:10 S3-8*
A catalytic step-specific transcriptional regulation of steroid hormone biosynthesis is essential for developmental timing in *Drosophila melanogaster*
Ryusuke Niwa (University of Tsukuba, Japan)

*Selected Talks

18:10-18:40	S3-9 **Regulation of developmental time by sugar metabolism in *Drosophila*** Takashi Nishimura (RIKEN Center for Developmental Biology, Japan)
18:40-	Invited speakers go to dinner

*Selected Talks

Wednesday, March 25 (Day 3)

Session 4: Life Span
Chair: Shigeo Hayashi

9:30-10:00 S4-1
A steroid hormone pathway regulating development and longevity
Adam Antebi (Max Planck Institute for Biology of Ageing, Germany)

10:00-10:30 S4-2
Intervening in ageing to prevent neurodegeneration
Linda Partridge (Max Planck Institute for Biology of Ageing, Germany)

10:30-10:50 S4-3*
miR-29: A molecular timer that accelerates the aging program
Ayumi Nakamura (University of North Carolina at Chapel Hill, USA)

10:50-11:20 *Coffee Break*

Session 5: Evolutionary Time
Chair: Shigeru Kuratani

11:20-11:50 S5-1
Molecular aspects of developmental plasticity: on novel genes, chromatin remodeling and gene duplications
Ralf J. Sommer (Max Planck Institute for Developmental Biology, Germany)

11:50-12:10 S5-2*
Timing of skeletal muscle development during primary body wall transformation in amniote embryos
Tatsuya Hirasawa (RIKEN, Japan)

12:10-12:30 S5-3*
Sequence informatics for evolution-aware molecular zoology
Shigehiro Kuraku (RIKEN Center for Life Science Technologies (CLST), Japan)

*Selected Talks

12:30-13:30 Lunch and Poster Session 3
Free discussion, All posters

13:30-14:00 S5-4
In search for more ancestral embryos
Naoki Irie (The University of Tokyo, Japan)

14:00-14:20 S5-5*
Complex evolutionary trajectories of sex chromosomes across bird taxa
Qi Zhou (University of California, Berkeley, USA)

14:20-14:50 S5-6
Developmental hourglass - classical concepts in the genomics era
Pavel Tomancak (Max Planck Institute of Molecular Cell Biology and Genetics, Germany)

14:50-15:00 Closing Remarks by Claudio Stern

*Selected Talks