

Program

Tuesday, July 15th

14:00-19:00 Registration (Public Hall Lobby)

15:50-16:00 Opening Comments & Introduction (Noh Theater)
Asako Sugimoto, Andrew Chisholm & Ahna Skop

Session 1: Systems and Quantitative Biology

Chairs: Zhirong Bao & Ronen Zaidel-Bar

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| 16:00-16:40 | The making of a worm: genes, cells and the organism
Keynote: Zhirong Bao
Sloan Kettering Institute
<i>[This Keynote Talk is sponsored by Chroma Technology]</i> | 1 |
| 16:40-16:55 | SSBD: a quantitative database approach for understanding spatiotemporal dynamics of <i>C. elegans</i> development
Kenneth H.L. Ho
RIKEN Quantitative Biology Center | 2 |
| 16:55-17:10 | Defining regulatory pathways coupling cell division timing and cell fate differentiation in <i>C. elegans</i> by automated lineaging
Vincy Wing Sze Ho
Hong Kong Baptist University | 3 |
| 17:10-17:25 | Using cell-specific RNA-seq to study sex-specific gonadogenesis
Mary B. Kroetz
University of Minnesota | 4 |

17:25-17:40	BREAK	
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17:40-18:20	Genetics and the <i>C. elegans</i> Embryo: Past and Present	
	Keynote: Bruce Bowerman	5
	Institute of Molecular Biology / University of Oregon	
18:20-18:35	Quantitative analysis of microtubule orientation and organelle movements during meiotic cytoplasmic streaming in <i>C. elegans</i> early embryos	6
	Kenji Kimura	
	Natl. Inst. of Genet. / SOKENDAI	
18:35-18:50	Coordinated actomyosin kinetics in generating self-organized pattern formation in the cell cortex	7
	Masatoshi Nishikawa	
	BIOTEC / MPI-CBG / MPI-PKS	
18:50-19:05	A conditional knockout system based on the combination of UV/TMP single-copy integration methods and deletion mutant strains in <i>C. elegans</i>	8
	Eriko Kage-Nakadai	
	Tokyo Women's Medical University School of Medicine / Osaka City University	

19:05-21:00	Welcome Mixer (Japanese Garden)	
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Wednesday, July 16th

Session 2: Germline, Cell Division, Cell Polarity

Chairs: Sander van den Heuvel & E. Jane Albert Hubbard

9:00-9:40	Chromosome Dynamics During Meiosis in <i>C. elegans</i> Keynote: Abby Dernburg University of California, Berkeley	9
9:40-9:55	Protein phosphatase 4 promotes chromosome pairing and synapsis, and contributes to maintaining crossover competence with increasing age Aya Sato-Carlton Kyoto University	10
9:55-10:10	LIN-41 regulates continuous centrosome inactivation during oogenesis through suppression of CDK-1 pathway in <i>C. elegans</i> Rieko Matsuura National Institute of Genetics	11
10:10-10:25	Acentrosomal spindle pole assembly in <i>C. elegans</i> oocytes. Amy Alexis Connolly University of Oregon	12
10:25-10:40	Aurora A kinase AIR-1 is required for microtubule assembly of female meiotic spindles Eisuke Sumiyoshi Tohoku University	13
10:40-11:00	BREAK	

11:00-11:15	RNA-binding Protein ATX-2 Interacts with SZY-20 and ZYG-1 to Regulate Centrosome Assembly and Size Mi Hye Song Oakland University	14
11:15-11:30	ATX-2, the <i>C. elegans</i> ortholog of human Ataxin-2, is necessary for cytokinesis, ER morphology and P granule segregation Megan M Gnazzo University of Wisconsin-Madison	15
11:30-11:45	Morphology of actomyosin network is regulated by colocalization of RhoGAP RGA-3/4 Masashi Fujita RIKEN Quantitative Biology Center	16
11:45-12:00	The Rho GTPase-Activating Protein RGA-7 controls the CDC-42 / WSP-1 pathway and filopodia formation during ventral enclosure in <i>Caenorhabditis elegans</i> embryos Sarah Jenna Chemistry department, UQAM	17
12:00-12:15	Dual mechanisms ensure PAR-1 cortical asymmetry in <i>C. elegans</i> zygote Ravikrishna Ramanujam Temasek Life Sciences Laboratory	18
12:15-14:00	Lunch (Yume-Kaze Plaza)	

Session 3: Developmental Timing, Cell Fate, Gene Expression

Chairs: Kiyoji Nishiwaki & Alex Hajnal

14:00-14:40	Regulation of asymmetric cell division by Wnt signaling Keynote: Hitoshi Sawa National Institute of Genetics	19
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14:55-15:10	Cooperative control of cell cycle exit by G1/S inhibitors and SWI/SNF chromatin remodeling factors Sander van den Heuvel Utrecht University	21
15:10-15:25	LEP-2/Makorin post-transcriptionally regulates LIN-28 in the juvenile-to-adult transition R Antonio Herrera New York University	22
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16:15-16:30	TRIMming pluripotency Cristina Tocchini FMI/University of Basel	25

16:30-16:45	The SET-2/SET1 histone H3K4 methyltransferase maintains pluripotency in the <i>Caenorhabditis elegans</i> germline Francesca Palladino Ecole Normale Supérieure de Lyon/Université Lyon	26
16:45-17:00	HTZ-1 and MYS-1 act redundantly to maintain cell fates in somatic gonadal cells through repression of <i>ceh-22</i> in <i>Caenorhabditis elegans</i> Yukimasa Shibata Kwansei Gakuin Univ.	27
17:00-17:15	Sequential partitioning of histone methylation and demethylation activities ensures the robustness of natural transdifferentiation Sophie Jarriault IGBMC	28
17:15-17:30	Essential roles of XRN2 and its novel binding partner PAXT-1 in RNA turnover and <i>C. elegans</i> development Takashi Miki Friedrich Miescher Institute for Biomedical Research	29
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17:30-19:00	Dinner (with poster viewing) (Reception Hall, Conference Room 3/4, Japanese Style Dressing Room)	
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19:00-21:00	Poster Session I Presenters of odd-numbered posters (Reception Hall, Conference Room 3/4)	
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21:00-22:30	Beer Time (Yume-Kaze Plaza)	
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Thursday, July 17th

Session 4: Neurobiology

Chairs: Alexander M van der Linden & Takeshi Ishihara

9:00-9:40	Trafficking of synaptic vesicle proteins Keynote: Sandhya P. Koushika DBS-TIFR	30
9:40-9:55	Neurons and glia cooperate in assembly of the embryonic <i>C. elegans</i> nerve ring Georgia Rapti The Rockefeller University	31
9:55-10:10	Extracellular cues that pattern dendritic morphogenesis Xintong Dong Stanford University	32
10:10-10:25	Spatial Control of Neurite Branching by Wnt-Frizzled/PCP Signaling Chun-Hao Chen National Taiwan University	33
10:25-10:40	The role of TDP-43 in axonal transport of mRNA Justin C. Chaplin The University of Queensland	34

10:40-11:00	BREAK	
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11:00-11:15	A pair of RNA binding proteins modulates synaptic transmission, behavior, and alternative splicing in distinct neuron classes Adam D Norris Harvard University	35
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12:15-14:00	Lunch (Yume-Kaze Plaza)	
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14:00-17:30	Free Time (Optional: Walking Excursion)	
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17:30-19:00	Dinner (with poster viewing) (Reception Hall, Conference Room 3/4, Japanese Style Dressing Room)	
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19:00-21:00	Poster Session II Presenters of even-numbered posters (Reception Hall, Conference Room 3/4)	
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21:00-22:30	Beer time (Yume-Kaze Plaza)	
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Friday, July 18th

Session 5: Cell Death, Organelles

Chairs: Ken Sato & Anne Spang

9:00-9:40	To eat correctly: Phospholipid signaling in apoptotic cell recognition and internalization Keynote: Xiaochen Wang NIBS	40
9:40-9:55	Translational Regulators GCN-1 and ABCF-3 Act Together to Promote Developmental and DNA Damage-Induced Germ-Cell Deaths Takashi Hirose MIT	41
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10:10-10:25	<i>C. elegans</i> CED-3 caspase regulates centrosome asymmetry in an apoptotic death Barbara Conratt Ludwig-Maximilians-University Munich	43
10:25-10:40	Small GTPase CDC-42 promotes apoptotic cell corpse clearance in response to PAT-2 and CED-1 in <i>C. elegans</i> Sheng Zeng University of Zurich	44
10:40-11:00	BREAK	

11:00-11:15	<i>rab-35</i> and <i>arf-6</i> function together in linker cell corpse removal	45
	Lena Kutscher The Rockefeller University	
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	Zheng Zhou Baylor College of Medicine	
11:30-11:45	Novel binding partner of small GTPase RAB-11 regulates RAB-11 redistribution to Golgi after fertilization	47
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	Zuo Yen Lee ETH Zurich	

12:15-14:00 Lunch (Yume-Kaze Plaza)

Session 6: Morphogenesis, Cytoskeleton

Chairs: Mi Hye Song & King Lau Chow

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15:25-15:40	SPV-1, an F-BAR and RhoGAP domain protein, regulates spermatheca contractility Pei Yi Tan National University of Singapore	54
15:40-15:55	Genetic analysis of epidermal cell mechanical properties during <i>C. elegans</i> embryonic elongation Gabriella Pásti IGBMC	55
15:55-16:10	The microtubule minus-end binding protein PTRN-1 and other cytoskeletal proteins function in epidermal development Marian Chuang UC San Diego	56

16:10-16:30	BREAK	
16:30-17:30	Morphogenetic roles of non-centrosomal microtubules Special Keynote: Masatoshi Takeichi RIKEN Center for Developmental Biology	57
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19:00-19:30	Welcome Drink (Restaurant "Half Time" at Nara National Museum)	
19:30-21:30	Banquet (Restaurant "Half Time" at Nara National Museum)	
22:00-	Japanese Pub near Nara Station (optional)	

Saturday, July 19th

Session 7: Aging, Stress, Metabolism, Pathogenesis

Chairs: Seung-Jae Lee & Chun-Liang Pan

9:00-9:40	The worm transcriptome: the past and the future Keynote: Yuji Kohara National Institute of Genetics	58
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11:40-11:55	Age-Dependent Mitochondrial Fragmentation in <i>C. elegans</i> Touch Receptor Neurons Hao-Ching Jiang National Taiwan University	66
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11:55-12:00	Closing Comments Asako Sugimoto Tohoku University	
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Poster Session

Poster #67 - #141: Reception Hall
Poster #142 - #200: Conference Room 3/4

Wednesday, July 16th 19:00-21:00 : Odd-numbered posters

Thursday, July 17th 19:00-21:00 : Even-numbered posters

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DGIST | |
| A natural odor attraction between <i>C. elegans</i> and Lactobacillus bacteria | 68 |
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Yonsei University | |
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Kyushu University | |
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The University of Tokyo | |

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Gavin C Woodruff Forestry and Forest Research Products Institute	
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06. Morphogenesis, Migration and Cytoskeleton

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IGBMC

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Department of Life Sciences/IBIO/ Pohang University of Science and Technology

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Max Planck Institute for Biology of Ageing

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Max Planck Institute for Biology of Ageing

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