

# Program

---

## DAY 1, TUESDAY, JULY 8, 2025

**15:00–17:00 Registration**

**17:10–17:15 Opening Remarks:** Katsuhiko HAYASHI

**17:15–18:55 Plenary Lecturers**

Chairs: Katsuhiko HAYASHI  
Shosei YOSHIDA

**17:15–18:05 [PL1]**

**In vitro gametogenesis: a window into germline integrity and continuity** ..... 30  
Katsuhiko HAYASHI  
(The University of Osaka, Japan)

**18:05–18:55 [PL2]**

**C. elegans transgenerational avoidance of three Pseudomonas species is mediated by three small RNAs targeting multiple C. elegans genes** ..... 32  
Coleen Tara MURPHY  
(Princeton University, USA)

**19:05–20:30 Welcome Reception**

## DAY 2, WEDNESDAY, JULY 9, 2025

**9:00–11:30 Session A**

**Variable inheritance for continuity**

Chair: Shosei YOSHIDA

**9:00–9:30 [A-1]**

**Cell biological mechanisms of aging-associated egg aneuploidy** ..... 34  
Tomoya KITAJIMA  
(RIKEN Center for Biosystems Dynamics Research, Japan)

**9:30–10:00 [A-2]**

**Meiotic spindle assembly in oocytes** ..... 36  
Hiroyuki OKURA  
(The University of Edinburgh, UK)

**10:00–10:30 Coffee Break**

**10:30–11:00 [A-3]**

**Sperm-egg incompatibility as a reproductive isolating barrier between closely-related mouse species** ..... 38  
Takashi AKERA  
(NIH, USA)

---

<b>11:00–11:30 [A-4]</b>	
Programmed DNA Elimination in the Nematode <i>Caenorhabditis auriculariae</i> .....	40
Asako SUGIMOTO	
(Tohoku University, Japan)	

**11:30–14:00 Lunch after taking Group photo**

**14:00–17:00 Session B**

**Reset for continuity**

Chair: Tomoya KITAJIMA

**14:00–14:30 [B-1]**

Tracking Dynamic Chromatin Changes During Spermiogenesis: Implications for the Diagnosis of Male Infertility .....	42
Yuki OKADA	
(The University of Tokyo, Japan)	

**14:30–15:00 [B-2]**

Transmission of the human maternal genome - a tale of triumph over tribulation .....	44
Mary HERBERT	
(Biomedicine Discovery Institute, Monash University, Australia)	

**15:00–15:30 [B-3]**

Heritable epigenome formation via Polycomb-Trithorax counteraction in mouse oocytes .....	48
Azusa INOUE	
(RIKEN Center for Integrative Medical Sciences, Japan)	

**15:30–15:50 Coffee Break**

**15:50–16:20 [B-4]**

Rise and SINE: Mechanisms of transcriptional “awakening” at the start of life .....	50
Kikuë TACHIBANA	
(Max Planck Institute of Biochemistry, Germany)	

**16:20–16:50 [B-5]**

Precision genetic perturbations reveal the functional role of chromatin marks in oogenesis & epigenetic inheritance .....	54
Jamie HACKETT	
(European Molecular Biology Laboratory, Italy)	

**16:50–17:00 Short Break**

**17:00–18:10 Short Talk Session I**

Chair: Takashi AKERA

**17:00–17:10 [PS-21]**

Ryuki SHIMADA .....	120
(IMEG, Kumamoto University, Japan)	

---

<b>17:10–17:20 [PS-27]</b>	Sefan ASAMITSU .....	127
	(RIKEN Center for Integrative Medical Sciences, Japan)	
<b>17:20–17:30 [PS-07]</b>	Yohei HAYASHI .....	100
	(Tohoku University, Japan)	
<b>17:30–17:40 [PS-39]</b>	Kai OTSUKA .....	139
	(Tokyo University of Science, Japan)	
<b>17:40–17:50 [PS-03]</b>	Jianxi LI .....	95
	(The University of Tokyo, IQB, Japan)	
<b>17:50–18:00 [PS-11]</b>	Gera PAVLOVA .....	105
	(The University of Edinburgh, UK)	
<b>18:00–18:10 [PS-19]</b>	Kaori ISHIKAWA .....	117
	(University of Tsukuba, Japan)	

**18:20–19:20 Dinner**

**19:30–21:30 Poster Session I (Odd Number Posters)**

### DAY 3, THURSDAY, JULY 10, 2025

<b>9:00–12:00</b>	<b>Session C</b>
	<b>Genetic resilience for continuity</b>
	Chair: Katsuhiko HAYASHI
<b>9:00–9:30</b>	<b>[C-1]</b>
	<b>Unequal distribution of histone modification promotes yeast aging through rDNA instability .....</b>
	Takehiko KOBAYASHI .....
	(The University of Tokyo, Japan)
<b>9:30–10:00</b>	<b>[C-2]</b>
	<b>Germline immortality and evolution .....</b>
	Yukiko YAMASHITA .....
	(MIT/Whitehead Institute/HHMI, USA)
<b>10:00–10:30</b>	<b>[C-3]</b>
	<b>Germline clone dynamics in mice across the lifespan and generations .....</b>
	Shosei YOSHIDA .....
	(National Institute for Basic Biology, Japan)

**10:30–11:00 Coffee Break**

---

<b>11:00–11:30 [C-4]</b>	<b>Causes and consequences of selfish selection in the male germline</b>	.....	<b>62</b>
<u>Anne GORIELY</u> (University of Oxford, UK)			
<b>11:30–12:00 [C-5]</b>	<b>Mutational landscape and clonal dynamics in human germline cells</b>	.....	<b>64</b>
<u>Raheleh RAHBARI</u> (Wellcome Sanger Institute, UK)			

**12:00–14:00 Lunch**

**14:00–17:00 Session D**

**Brink of discontinuity**

Chair: Kyoko MIURA

<b>14:00–14:30 [D-1]</b>	<b>Somatic and germline mutational landscapes across species</b>	.....	<b>66</b>
<u>Alex CAGAN</u> (University of Cambridge, UK)			
<b>14:30–15:00 [D-2]</b>	<b>Somatic mosaicism and cancer</b>	.....	<b>68</b>
<u>Seishi OGAWA</u> (Kyoto University, Japan)			
<b>15:00–15:30 [D-3]</b>	<b>Analysis of metabolic and epigenetic alterations in senescent cells</b>	.....	<b>70</b>
<u>Akiko TAKAHASHI</u> (The Cancer Institute Of JFCR, Japan)			

**15:30–15:50 Coffee Break**

**15:50–16:20 [D-4]**

<b>In vivo reprogramming drives development of cancer resembling human germ cell tumors with features of totipotency</b>	.....	<b>74</b>	
<u>Yasuhiro YAMADA</u> (The University of Tokyo, Japan)			

**16:20–16:50 [D-5]**

<b>Quantifying Aging, Longevity and Rejuvenation</b>	.....	<b>76</b>	
<u>Vadim N. GLADYSHEV</u> (Brigham and Women's Hospital, Harvard Medical School, USA)			

**16:50–17:00 Short Break**

---

<b>17:00–18:10</b>	<b>Short Talk Session II</b>
Chair: Yukiko YAMASHITA	
<b>17:00–17:10 [PS-26]</b>	Miho ASAOKA ..... 126 (University of Tsukuba, Japan)
<b>17:10–17:20 [PS-34]</b>	Masayuki MIURA ..... 134 (The University of Tokyo, Japan)
<b>17:20–17:30 [PS-42]</b>	Hirohisa KYOGOKU ..... 144 (Kobe University, Japan/RIKEN, Japan)
<b>17:30–17:40 [PS-28]</b>	Shinichiro CHUMA ..... 128 (Kyoto University, Japan)
<b>17:40–17:50 [PS-38]</b>	Arikuni UCHIMURA ..... 138 (Radiation Effects Research Foundation, Japan)
<b>17:50–18:00 [PS-50]</b>	Matthew NEVILLE ..... 154 (Wellcome Sanger Institute, UK)
<b>18:00–18:10 [PS-20]</b>	Atsushi HATTORI ..... 118 (National Research Institute for Child Health and Development, Japan/ Tohoku University, Japan)

**18:20–19:20 Dinner**

**19:30–21:30 Poster Session II (Even Number Posters)**

## DAY 4, FRIDAY, JULY 11, 2025

<b>9:00–11:45</b>	<b>Session E</b>
<b>Diverse behavior avoiding discontinuity</b>	
Chair: Eisuke NISHIDA	
<b>9:00–9:30</b>	[E-1] Regeneration and lifespan in basal metazoans: insights from the jellyfish <i>Cladonema pacificum</i> ..... 80 Yuichiro NAKAJIMA (The University of Tokyo, Japan)
<b>9:30–10:00</b>	[E-2] Studying the link between aging and sociality in ants ..... 82 Akiko KOTO (National Institute of Advanced Industrial Science and Technology, Japan)

---

<b>10:00–10:30 [E-3]</b>	
<b>Accumulation of mutations in trees and their impacts on gene-environment interactions .....</b>	<b>84</b>
<u>Akiko SATAKE</u>	
(Kyushu University, Japan)	

**10:30–10:45 Coffee Break**

<b>10:45–11:15 [E-4]</b>	
<b>Molecular mechanism promoting longevity in response to signals from the gonad .....</b>	<b>86</b>
<u>Shuhei NAKAMURA</u>	
(Nara Medical University, Japan)	

<b>11:15–11:45 [E-5]</b>	
<b>Elucidating the molecular basis of the healthy aging system in the longest-lived rodent, the naked mole-rat .....</b>	<b>88</b>
<u>Kyoko MIURA</u>	
(Kumamoto University, Japan/Kyushu University, Japan)	

**11:45–11:50 Information of Naito Grants**

**11:50–12:00 Announcement of Award Recipients**

**12:00–12:05 Closing Remarks:** Katsuhiko HAYASHI

**12:05–13:00 Lunch**

**13:15 Departure of Charter Buses**