[Day1] MONDAY 10TH NOVEMBER 2025

9:30-10:00 Arrival

10:00-10:05 Opening Remarks: Hiroyuki Sasaki

10:05-12:20 Session 1: Epigenetics and Computational Biology

Chairs: Ryuichiro Nakato & Guillaume Bourque

Sushmita Roy (online)

Unsupervised learning to decipher gene regulatory programs from bulk and single cell omic datasets

Guillaume Bourque

EpiATLAS and pangenome graphs - new resources for human epigenomic research

Ryuichiro Nakato

Large language models to identify syntax and function of the epigenome

Short Break (10 min)

Akiharu Kubo

An Epigenetic Mosaic Disorder of the Skin: Asymptomatic Epigenetic Mosaicism of <I>FDFT1</I> Underlies Localized Porokeratosis

Naoko Satoh-Takayama

Deciphering disease pathogenesis via spatial profiling of immune cells

12:20-13:50 Lunch Break

13:50-16:30 Session 2: Regulation of Neural Development

Chairs: Yukiko Gotoh & Kinichi Nakashima

Hirofumi Morishita

Targeting vulnerable circuits in control of social and cognitive development

Ileana L. Hanganu-Opatz

Critical periods of cognitive development in health and disease

Kinichi Nakashima

Mechanism of pathogenicity induction by endogenous DNA ligands shared among models of autism spectrum disorders

Short Break (10 min)

Aya Ito-Ishida

Cortical network disruption in a mouse model of neurodevelopmental disorders

Kazuo Emoto

	Early-life control of nociceptive development
	Chiaki Ohtaka-Maruyama
	Subplate Dynamics: Sculpting the Neocortex Across Evolution
16:30-17:50	Poster Session
18:00-20:00	Mixer (invited speakers, AMED researchers/advisers, etc.)

[Day2] TUESDAY 11TH NOVEMBER 2025

9:30-11:45 Session 3: Decoding the early-life immunity and microbiome

Chairs: Koji Hase & Motoko Kimura

Hideki Ueno

Biological features of cord-blood naive CD4+ T cells and their association with pediatric allergy

Motoko Kimura

Exploring neonatal T cell biology: Recent findings and insights

Melody Y. Zeng

Regulation of early gut-brain immune axis by the microbiota

Short Break (10 min)

Parag Kundu

Maternal gut microbiota shapes neuronal and intestinal stem cells in offspring Koji Hase

Influence of maternal microbiota on fetal development and uterus immunity

11:45-12:45 Lunch Break

12:45-15:00 Session 4: Nutrition, physiology, and Metabolism in Early-life

Chairs: Fumiaki Obata & Joji Kusuyama

Joji Kusuyama

Placenta-derived signaling molecules and maternal-fetal interaction

Marika Charalambous

Untangling the developmental pathways linking early life growth, adiposity and appetite regulation

Juro Sakai

Transgenerational Programming of Human Brown Adipose Tissue by Cold Exposure at Fertilization: Evidence for the PfOHaD Hypothesis

Short Break (10 min)

Sally Dunwoodie

NAD deficiency and congenital malformation: Genetic and environmental impact on NAD metabolism

Fumiaki Obata

Dietary amino acids and longevity in Drosophila

15:00-15:30 Coffee Break

15:30-17:45 Session 5: Early-life impact on adult diseases

Chairs: Toshikazu Ushijima & TBD

Yasuhiro Takashima

Naive human PSCs model pre- to post-implantation development

Guo-Liang Xu

Intrinsic de novo DNA methylation in early embryos enables the generation of mice from methylation-deficient haploid ESCs

Makoto Tachibana

Epigenetic regulation of mouse male sex determination

Short Break (10 min)

Toshikazu Ushijima

Epigenetic Plasticity in Youth Turns into Fragility in Inflammation

Ilaria Panzeri

The Developmental Epigenetic Origin of Cancer Susceptibility

17:45-17:50 Closing remarks: Hiroyuki Takeda

18:00 onwards Speaker's Dinner (only speakers & organizing committee members)