



Ministry of Science and ICT

RISING Workshop 2025

Korea-Nordic Next-Generation Leaders Workshop for R&I

Bioscience and Biotechnology

Date

September 10-11, 2025

Venue

KNTEC Conference Room

Organized by



RISING Workshop 2025

(Korea-Nordic Next-Generation Leaders Workshop for R&I)

“Bioscience and Biotechnology”

September 10 to 11, 2025, KNTec Conference Room, Sweden

September 10 (Wednesday) : Workshop (Day 1)

14:00 - 14:10	Heewoong Park Cheolmin Park	Opening Talk
Topic A: Genomics and epigenomics Session Chair: Soon-Kyeong Kwon, Karl Carlström		
14:10 - 14:40	Sangwoo Kim	De novo, Somatic, and Mosaic Representation of Disease Genome
14:40 - 15:10	Alek Erikson	Multi-omic atlas of facial development reveals regulatory basis of trait specificity
15:10 - 15:40	Young Seok Ju	Epigenetic mosaicism acquired in human embryogenesis
15:40 - 16:10	Coffee Break	
16:10 - 16:40	Inkyung Jung	Decoding 3D Gene Regulation from Neurodevelopment to Neurodegeneration
16:40 - 17:10	Karl Carlström	Metabolic and epigenetic interplay in brain-resident cells
17:10 - 17:30	All Speakers	Wrap-up discussion
17:30 - 19:30	Dinner	

September 11 (Thursday) : Workshop (Day 2)

Topic B: Biomaterials and Bioelectronics

Session Chair: Peter Olsen, Dongyep Oh

09:00 - 09:30	Dongyep Oh	Hierarchical Self-Assembly of Nanofibers for Carbon-Negative, Waste-Zero Polymer Composites
09:30 - 10:00	Erica Zeglio	Towards Sustainable Organic Bioelectronics
10:00 - 10:30	Jeong-Yun Sun	Ion-to-Ion Amplification through an Open Junction Ionic Diode
10:30 - 11:00	Peter Olsen	Green Polymer Synthetic Methodology Development towards Sustainable and Circular Polymeric Materials
11:00 - 11:30	Coffee Break	

Topic C: Microbiome

Session Chair: Sangwoo Kim, Young Seok Ju

11:30 - 12:00	Soon-Kyeong Kwon	Gut microbiome research using multi-omics approaches and its implications for disease treatment
12:00 - 12:30	Chinmay Dwibedi	Integrating Clinical and Gut Microbial Markers to Personalize Type 2 Diabetes Treatment
12:30 - 13:30	Lunch	

Topic D: Immunology

Session Chair: Inkyung Jung, Begum Horuluoglu

13:30 - 14:00	William A. Nyberg	In vivo CRISPR engineering to reprogram human T cells
14:00 - 14:30	Begum Horuluoglu	Understanding the contribution of T cells to disease progression in myositis
14:30 - 15:30	All Speakers	Joint Discussion