

Multidisciplinary collaboration for sustainable development October 29, 30, 2018



2nd Stockholm-Tokyo Workshop

Plenary symposium: Oct. 29 (Mon), 9:00-16:40

Venue: The Ito Hall, Hongo Campus, The University of Tokyo

Opening session

President Makoto Gonokami of The University of Tokyo

Prof. Peter Gudmundson and video messages from the presidents of KI, KTH and SU.

Healthy ageing (1): Biological mechanisms regulating healthy and maladaptive ageing

Prof. Kohei Miyazono (MED, UTokyo) *Possible Roles of TGF- β Family Signaling in Ageing*

Prof. Makoto Murakami (MED, UTokyo) *Phospholipid metabolism in healthy and maladaptive aging*

Prof. Maria Lindskog (KI, Stockholm) *Increasing resilience with a balanced neuron-astrocyte interaction*

Healthy ageing (2): Prevention and well-being

Prof. Katsuya Iijima (IOG, UTokyo) *To achieve healthy ageing and well-being:
Multi-faceted action research of "Frailty prevention"*

Prof. Miia Kivipelto (KI, Stockholm) *Multidomain interventions to prevent cognitive impairment and dementia:
From FINGER to World-Wide FINGERS*

Prof. Joakim Gustafsson (KTH, Stockholm) *Social robots for the elderly companionship with a purpose*

Sustainable materials:

Prof. Akira Isogai (AG, UTokyo) *TEMPO-oxidized cellulose nanofibers and nanocrystals:
New bio-based nanomaterials for establishment of a sustainable society*

Prof. Lennart Bergström (SU, Stockholm) *Nanocellulose-based hybrid foams and films: from single-fibril
properties to assembly of high-performance materials*

Prof. Daniel Söderberg (KTH, Stockholm) *Developing processes for fabrication
of high-performance bio-based materials*

Bridging materials and life science by electron microscopy:

Prof. Yuichi Ikuhara (ENG, UTokyo) *Grain Boundary and Surface Dynamics of Diffusion and Fracture in Materials*

Prof. Masahide Kikkawa (MED, UTokyo) *Combination of cryo-EM and genetics for studying eukaryotic cilia*

Prof. Xiaodong Zou (SU, Stockholm) *Electron microscopy as an important tool for developing new materials
for sustainable society*

Prof. Björn Högberg (KI, Stockholm) *DNA Origami and what it can help us learn about biology*

Satellite workshops: Oct. 30 (Tue)

- (1) Biological mechanisms regulating healthy and maladaptive ageing
- (2) Healthy ageing and well-being: From social science aspects
- (3) New technologies: Electron microscopy
- (4) Sustainable materials
- (5) Ageing societies: Sustainability and resilience challenges in the urban century
- (6) New technologies: Multiscale computation
- (7) Nano-biomaterials
- (8) ASIAQ2 (Arctic)

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