

# Multidisciplinary collaboration for sustainable development October 29, 30, 2018



**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. Kohel Miyazono (MED, UTokyo) *Possible Roles of IGF- $\beta$  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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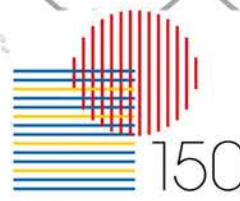
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