## TUESDAY, JULY 4, 2023

#### 15:00-17:00 Registration

17:10–17:15 Opening Remarks: Yasushi OKADA

17:15–18:55 Plenary Lectures

Chair: Yasushi OKADA

17:15-18:05 [PL-1]

18:05-18:55 [PL-2]

The Ins and Outs of Microtubule Tip Control by Centrosomal and Ciliary Proteins 20 Anna AKHMANOVA (Faculty of Science, Utrecht University, The Netherlands)

19:00–20:30 Welcome Reception

## WEDNESDAY, JULY 5, 2023

9:00–12:00	Session A Microtubule Motors and Neuronal Morphogenesis Chairs: Yasushi OKADA Shinsuke NIWA		
	9:00–9:30	[A-1] Comparative analysis of two <i>Caenorhabiditis elegans</i> kinesins KLP-6 and UNC-104 reveals common and distinct activation mechanisms in kinesin-322 <u>Shinsuke NIWA</u> (Tohoku University, Japan)	
	9:30–10:00	[A-2] Microtubule detyrosination by VASH1/SVBP is regulated by the conformational state of tubulin in the lattice	
	10:00–10:30	[A-3]    Tackling the Mystery of Velocity of Fast Axonal Transport	

10:30-11:00 Coffee Break

	11:00–11:30 [A-4]  Stress induced vesicular assemblies of DLK are signaling hubs involved in kinase activation and neurodegeneration  28    Casper HOOGENRAAD (Genentech, USA)  (Genentech, USA)  30    11:30–12:00 [A-5]  Establishing and maintain microtubule arrays in dendrites
12:00–14:00	Lunch/Group Photo Shooting
14:00–17:00	Session B Plant Microtubule Chairs: Yoshihisa ODA Staffan PERSSON
	14:00–14:30 [B-1] Plant cell wall synthesis is maintained by a microtubule-based mechanism during environmental stress Staffan PERSSON (University of Copenhagen, Denmark)
	14:30–15:00 [B-2] Plant KIF15 functions as a vesicle transporter for the cell plate formation during cytokinesis <u>Moe YAMADA</u> (Nagoya University, Japan)
	15:00–15:30 [B-3] Mechanism of microtubule formation in acentrosomal mitotic spindles of plant cells
	15:30–16:00 Coffee Break
	16:00–16:30 [B-4] <u>Microtubule organization in xylem vessels</u> 40 <u>Yoshihisa ODA</u> (Nagoya University, Japan)
	16:30–17:00 [B-5] Elucidating molecular mechanisms of microtubule nucleation, severing, and regulation of microtubule dynamics during the organization of cortical microtubule arrays in plant
17:00–18:10	Short Talk I
18:15–19:30	Dinner

19:30–21:00 Poster Session I (Odd Number Posters)

## THURSDAY, JULY 6, 2023

#### 9:00-12:00 Session C

## Cilia and Related Molecules

Chairs: Masahide KIKKAWA Gaia PIGINO

#### 9:00-9:30 [C-1]

The Tubulin Code: How Cells Encode Spatiotemporal Information Into Their Microtubule Networks Antonina ROLL-MECAK (National Institutes of Health, USA)

#### 9:30-10:00 [C-2]

New insights into the mechanism of dynein force generation ......48 Hiroshi IMAI

(Osaka University, Japan)

#### 10:00-10:30 [C-3]

Structure and logistics of intraflagellar transport trains in motile cilia

Gaia PIGINO (Structural Biology Research Centre, Human Technopole, Italy)

#### 10:30-11:00 Coffee Break

#### 11:00-11:30 [C-4]

Sensory neurons dump a hyperactive ciliary kinesin for degradation 54 Guangshuo OU

(Tsuinghua University, China)

#### 11:30-12:00 [C-5]

#### 12:00-14:00 Lunch

#### 14:00-17:00 Session D

#### MAPs and Microtubule Motors, in vitro

Chairs: Ryo NITTA Richard J MCKENNEY

## 14:00-14:30 [D-1]

(UT Southwestern Medical Center, USA)

#### 14:30-15:00 [D-2]

Microtubule dynamics regulation by CAMSAPs and Kinesin-4 .....60 Ryo NITTA

(Kobe University Graduate School of Medicine, Japan)

#### 15:30–16:00 Coffee Break

Junichiro YAJIMA

(The University of Tokyo, Japan)

15:00-15:30 [D-3]

### 16:00–16:30 [D-4] Regulatory Mechanisms of Cargo Transport Kinesins ······66 <u>Richard J MCKENNEY</u> (University of California, Davis, USA)

16:30–17:00 [D-5]

The Mechanism and Regulation of Microtubule Motors ......68 <u>Ahmet YILDIZ</u> (University of California, Berkeley, USA)

17:00-18:10 Short Talk II

- 18:15-19:30 Dinner
- 19:30–21:00 Poster Session II (Even Number Posters)

## FRIDAY, JULY 7, 2023

- 9:00–9:30 Short Talk III
- 9:30–11:45 Session E Cell Division Chairs: Ken'ya FURUTA Marileen DOGTEROM

9:30–10:00 [E-1]

Mechanisms of dynein-mediated mitotic spindle assembly and maintenance in somatic human cells and vertebrate early embryos Tomomi KIYOMITSU

(Okinawa Institute of Science and Technology Graduate University, Japan)

10:00-10:15 Coffee Break

10:15-10:45 [E-2]

# Multivalent interactions facilitate motor-dependent protein accumulation at growing microtubule plus-ends

<u>Marileen DOGTEROM</u> (Delft University of Technology, The Netherlands)

	10:45–11:15 [E-3] Programmable molecular transport achieved by engineering protein motors to move on DNA nanotubes <u>Ken'ya FURUTA</u> (National Institute of Information and Communications Technology, Japan)
11:15-11:20	Information of Naito Grants
11:20-11:30	Announcement of Award Recipients
11:30-11:35	Closing Remarks: Yasushi OKADA
11:35-13:00	Lunch