



TOHOKU  
UNIVERSITY

# Tohoku Forum for Creativity Thematic Program 2019 Plant Stem Cells: Source of Plant Vitality

## Workshop2

# Auxin and plant stem cells

May 20 Mon. & 21 Tue., 2019

TOKYO ELECTRON  
House of Creativity 3F (B02),  
Katahira Campus,  
Tohoku University

### Monday, May 20, 2019

#### Opening Remarks [13:30 – 13:35]

[13:30 – 13:35] Satoshi Naramoto [Tohoku University]

#### Session I [13:35 – 15:10]

[13:35 – 14:00] Yunde Zhao [UCSD]

**Precise control of auxin concentrations in Arabidopsis**

[14:00 – 14:25] Miyo Terao Morita [NIBB]

**Molecular mechanism of gravity signaling in gravitropism**

[14:25 – 14:50] Shinya Hagihara [RIKEN]

**Chemistry-based approach to regulating auxin signaling**

[14:50 – 15:10] Coffee break

#### Session II [15:10 – 16:00]

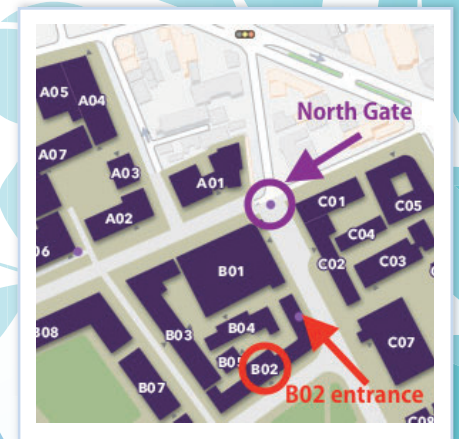
[15:10 – 15:35] Satoshi Naramoto [Tohoku university]

**Cell polarity establishment and maintenance mediated by PIN cluster formation in Arabidopsis**

[15:35 – 16:00] Minoru Ueda [Tohoku university]

**Subtype-selective agonist for COI1-JAZ co-receptor of jasmonate**

Place, [http://www.tfc.tohoku.ac.jp/about\\_us/contact\\_and\\_access.html](http://www.tfc.tohoku.ac.jp/about_us/contact_and_access.html)



### Tuesday, May 21, 2019

#### Session III [10:30 – 11:50]

[10:30 – 10:55] Hidehiro Fukaki [Kobe University]

**Regulation of Auxin-mediated lateral root formation**

[10:55 – 11:20] Hiroyuki Kasahara [Tokyo University of Agriculture and Technology]

**Biosynthesis and inactivation of two distinct auxins in plants**

[11:20 – 11:45] Akie Kobayashi [Tohoku University]

**MIZ1 function unique to hydrotropism in Arabidopsis root**

[11:45 – 11:50] Closing Remarks

#### Contact

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**Principles of pluripotent stem cells  
underlying plant vitality**



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