

# One-day Workshop on cellular-level ethological dynamics towards "proto-intelligence"

2022 **10/29 SAT** | Maskawa Hall (Kyoto U, Japan)  
+ Online (hybrid style)

## Time Schedule (JST)

- 09:45-09:55 Opening (Toshiyuki Nakagaki)
- Session 1 (Chair: Kyosuke Shinohara)
- 09:55-10:00 Short Speech by session chair
- 10:00-10:40 Atsuko Takamatsu (Waseda U)  
"Adaptation and memory by morphology of transport network in plasmodial true slime mold"  
Ken-ichi Wakabayashi (Tokyo Tech)
- 11:00-11:40 "Photobehavior in the Volvocales green algae with different cell numbers:  
Chlamydomonas, Tetraebaena, and Volvox"
- Session 2 (Chair: Kenji Kikuchi)
- 13:25-13:30 Short Speech by session chair
- 13:30-14:10 Masato Abe (Doshisha U)  
"Random searches underlying biological intelligence"
- 14:30-15:10 Tatsuo Shibata (RIKEN-BDR)  
"Emergence of cell chirality and collective rotational migration through  
spatial organization of the cytoskeleton"
- Session 3 (Chair: Kogiku Shiba)
- 15:55-16:00 Short Speech by session chair
- 16:00-16:40 Benjamin Friedrich (TU Dresden)  
"Chemical and mechanical control of cilia and flagella"
- 17:00-17:40 Kirsty Wan (U Exeter)  
"Encoding patterns in ciliary motility"
- 18:00-18:10 Closing (Takuji Ishikawa)

## Organizers

Makoto Iima (Hiroshima U, Chair), Kenta Ishimoto (Kyoto U, Vice chair)  
Takuji Ishikawa (Tohoku U), Kenji Kikuchi (Tohoku U), Toshiyuki Nakagaki (Hokkaido U)  
Yukinori Nishigami (Hokkaido U), Kogiku Shiba (U Tsukuba)

## Contact

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