

# Kickoff Symposium for "Fundamentals of Active Matter across Scales for Novel Materials"

## Speakers

**Yutaka Sumino** (Tokyo University of Science)

**Evgeny Podolskiy** (Arctic Research Center, Hokkaido University)

**Gutmann Gregory Spence** (Tokyo Institute of Technology)

**Daisuke Inoue** (Kyushu University)

**Akira Kakugo** (Faculty of Science, Hokkaido University)

**Yukinori Nishigami** (Research Institute for Electronic Science, Hokkaido University)

**Yoshiyuki Kageyama** (Faculty of Science, Hokkaido University)

Date: 26 May 2022

Venue: Science Build. #7, Hokkaido Univ., Sapporo, Japan

Organizing group: Active Matter across Scales for Novel Materials

<https://wwwchem.sci.hokudai.ac.jp/~active-matter>

Supported by 創成特定研究事業 in Hokkaido University

## Schedule

- 9:10-9:20**      **Opening remarks (Akira Kakugo)**
- 9:20-10:05**    **Yutaka Sumino** (Tokyo University of Science)  
"Experimental implementation of collective behavior of active particles" (in Japanese)
- 10:10-10:55**   **Evgeny Podolskiy** (Arctic Research Center, Hokkaido University)  
"Chaos theory reveals the diving behaviors of a whale" (in English)
- 11:00-11:45**   **Gutmann Gregory Spence** (Tokyo Institute of Technology)  
"GPU Accelerated Particle-based Simulation for Studying Collective Motion" (in English)
- 11:45-12:30**   **Luncheon Meeting and Brainstorming on Active Matter**
- 12:30-12:50**   **Daisuke Inoue** (Kyushu University)  
"Design of cytoskeletons by micro/nano fabrication" (in Japanese)
- 12:50-13:35**   **Akira Kakugo** (Faculty of Science, Hokkaido University)  
"Swarming of biomolecular motor based active matter" (in Japanese)
- 13:40-14:25**   **Yukinori Nishigami** (Research Institute for Electronic Science, Hokkaido University)  
"Survival strategies of swimming ciliates, *Tetrahymena pyriformis*" (in Japanese)
- 14:30-15:15**   **Yoshiyuki Kageyama** (Faculty of Science, Hokkaido University)  
"Active matter as a result of collective transformations of an artificial molecule" (in Japanese)
- 15:15-15:30**   **Free talk and closing remarks (Akira Kakugo)**
- 18:30-**         **Banquet**