

## OS11: Microfluidics and Microphysiological Systems

October 30, 2020

ROOM6 (Zoom Webinar)

- OS11-1      **Investigation of Cancer Cell Migration in Microfluidic System** (*Invited*)  
13:30-14:15      Hyeono Nam, Jessie S. Jeon (KAIST, Korea)
- OS11-2      **Changes of Migration Speed of Breast Cancer Cells by Oxygen Sensing**  
14:15-14:30      Satoshi Aratake (Tohoku University, Japan), Daisuke Yoshino (Tokyo University of Agriculture and Technology, Japan), Kenichi Funamoto (Tohoku University, Japan)
- OS11-3      **Evaluation of Dictyostelium Migration under Oxygen Concentration Gradient**  
14:30-14:45      Satomi Hirose (Tohoku University, Japan), Jean-Paul Rieu (Claude Bernard University Lyon 1, France), Kenichi Funamoto (Tohoku University, Japan)
- OS11-4      **Measurement of Oxygen Tension in Microfluidic Device by Using Oxygen-Sensing Film**  
14:45-15:00      Naoyuki Takahashi, Satomi Hirose (Tohoku University, Japan), Jean-Paul Rieu (Claude Bernard University Lyon 1, France), Kenichi Funamoto (Tohoku University, Japan)
- OS11-5      **Numerical Simulation on the Effects of Non-Newtonian Fluidic Properties of the Power-law Fluid on the Suspension Rheology**  
15:20-15:35      Miho Tanaka, Tomohiro Fukui, Misa Kawaguchi, Koji Morinishi (Kyoto Institute of Technology, Japan)
- OS11-6      **Fundamental Study on the Total Effective Viscosity of a Suspension Estimated from a Summation of Each Particle's Contribution by a Two-way Coupling Scheme**  
15:35-15:50      Naoki Okamura, Tomohiro Fukui, Misa Kawaguchi, Koji Morinishi (Kyoto Institute of Technology, Japan)
- OS11-7      **Self-propulsion of an Object Placed Close to Heated Substrate with Surface Microstructure**  
15:50-16:05      Clint John Cortes Otic, Shigeru Yonemura (Tohoku University, Japan)
- OS11-8      **Mass Transport Analysis in a Tumor Microenvironment Using Finite Element Method**  
16:05-16:20      Masataka Nikaido, Suguru Miyauchi, Kenichi Funamoto, Toshiyuki Hayase (Tohoku University, Japan)
- OS11-9      **Capsule-connected Microswimmer Driven by an Oscillating Shear Flow**  
16:20-16:35      Akira Doi, Toshihiro Omori, Takuji Ishikawa (Tohoku University, Japan)
- OS11-10      **Flagellar Driven Flow in the Choanocyte Chamber of Sponges**  
16:35-16:50      Takumi Ogawa, Toshihiro Omori, Takuji Ishikawa (Tohoku University, Japan)