



AIST–RCAS Bilateral Conference



Program

Time: 09:00-16:30, December 16, 2019

Venue: B106 Auditorium, 1st Floor, Interdisciplinary Research Building for Science and Technology (IRBST)

Time	Speaker	Title
09:00-09:10	Welcome	
09:10-09:20	Brief introduction of two institutes	
09:20-09:40	Koji Hatanaka	Intense femtosecond laser interaction with water for X-ray, THz wave, and sound/ultrasound emission
09:40-10:00	Shunsuke Furutani	On-site identification of meat species in processed foods by a rapid real-time polymerase chain reaction system
10:00-10:20	Bi-Chang Chen	Beyond the diffraction limit by lightsheet microscopy
10:20-10:40	Intermission	
10:40-11:00	Hyonchol Kim	Fabrication and Application of Cup-Shaped Magnetic Microparticles for Biosensing in Single Cell Level
11:00-11:20	Peilin Chen	Real-time optical cardiac imaging
11:20-11:40	Naohiro Noda	Fluorescent nucleic acid probe in droplets for bacterial sorting (FNAP-sort): a high-throughput screening method for environmental microorganisms with various growth rates
11:40-12:00	Yoshihiro Ohmiya	Absolute bioluminescence imaging at the single-cell level with a light signal at the Attowatt level
12:00-13:30	Lunch break	
13:30-13:50	Ryoji Kurita	DNA Immobilization on Microfluidic Surface Plasmon Resonance Sensor for Rapid Epigenetic Analysis
13:50-14:10	Shohei Yamamura	Cell chip systems for single-cell analysis and early diagnosis
14:10-14:30	Yasuhiro Mie	Tuning Nanoporous Gold Catalyst toward Efficient Biosensing and Bioproduction Platforms
14:30-14:50	Chi Chen	Near-field spectroscopic imaging of lipids and polymers
14:50-15:10	Intermission	
15:10-15:30	Riki Toita	Macrophage-Targeted Biomaterials for Treatment of Inflammatory Disorders
15:30-15:50	Chun-Wei Pao	Machine-Learning-Enabled Potential and Atomistic Simulation of Complex Materials
15:50-16:10	Tsukuru Minamiki	Organic Transistors Decorated with Artificial Molecular Receptors for Detecting Proteins
16:10-16:30	Satoshi Okada	Functional brain imaging based on a magnetic calcium-responsive nanoparticle
16:30	Adjourn	

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