Program

Day 1 (2018 / 9 / 6)	
Time	**Details**
17:30~19:30	***Registration*** ***(International Conference Hall)***
19:30~20:00	***Welcome Remarks***
20:00~21:30	***Reception***

Day 2 (2018 / 9 / 7)	
Time	**Details**
8:00~8:45	***Registration and Poster Setting (College of Medicine, Second conference room)***
8:45~9:00	***Opening Remarks***
9:00~9:45	***Keynote Speaker 1*** **Hitoshi Kasai,** Tohoku University Creation of Nano-prodrugs Composed of Poorly Water-soluble Compounds Using by the Reprecipitation Method
	***Moderator:* Hsien-Chang Chang**
9:45~10:30	***Session 1: Environmental session***
	***Chair:* Sheng-Jye Lim, Takuo Nakamura**
	E1 Miyu Shimura, Tohoku University Visualization of Metallic/Semiconducting Carbon Nanotubes by SECCM
	E2 Yi-De Wang, National Chung Hsing University Heterojunction Photocatalysts Based on Graphitic Carbon Nitride with Enhanced Photocatalytic Activity Under Visible Light
	E3 Tomoki Iwama, Tohoku University Investigation for High Resolution Imaging Using Closed Bipolar Electrode Array
10:30~11:00	***Coffee Break***
11:00~12:00	***Session 2: Chemical session***
	***Chair:* Ymir M. Garcia, Ryosuke Yaegaki**
	C1 Yoshiki Aita, Yamagata University Application of P(VDF-TrFE) Nanocrystal for Organic Photovoltaics
	C2 Naoto Kobayashi, Tohoku University Structure Formation of Polymer Nanocomposite Thin Films During Solvent Evaporation
	C3 Akhilesh Babu Ganganboina, National Tsing Hua University A Label-Free Impedimetric Immunosensor Based on N, S-GQDs Decorated Au-PANI for Selective Detection of Carcinoembryonic Antigen
	C4 Hirokazu Sato, Tohoku University An MFA-based Tool for Roadmapping a Technology in a Circular Economy: A Case on Integrated Production and Recycling of Si Photovoltaics
12:00~13:00	***Lunch (4F Restaurant of College of Medicine)***

13:00~13:45	***Keynote Speaker 2*** **Ting-Yuan Tu**, National Cheng Kung University 3D In Vitro Tissue Models Integrating Microfluidics for Drug Discovery
	***Moderator:* Yasuhiro Fukushima**
13:45~14:15	***Invited Speaker 1*** **Hiroaki Sakamoto**, University of Fukui Electrochemical DNA Biosensing for *Methicillin-resistant Staphylococcus Aureus* using Nanoparticle Modified Probe
	***Moderator:* Yasuhiro Fukushima**
14:15~15:00	***Session 3: Environmental session***
	***Chair:* Akhilesh Babu Ganganboina, Miyu Shimura**
	E4 Takuo Nakamura, Tohoku University SECM-SICM Analysis for Investigation of Enzyme Activities
	E5 Shuen-Wen Chan, National Tsing Hua University Development and Application of Wearable Self-powered Antibacterial System
	E6 Siti Masturah, Tohoku University Liquid Junction-free Closed Biploar Electrode Sensing System with Integrated Reference Electrode
15:00~15:30	***Coffee Break***
15:30~16:30	***Session 4: Biomedical session***
	***Chair:* Kai-Wei Shih, Tomone Sasayama**
	B1 Takehiro Onodera, Tohoku University Simultaneous Imaging of Enzyme and Respiration Activities of Cell Aggregates Using an Electrode Array Device
	B2 Chun-Jui Chen, National Cheng Kung University Worm on a Chip for Cancer Prescreening
	B3 Masakuni Echigo, Tohoku University Electrochemical Attosyringe for Local Gene Analysis of Cell Aggregations
	B4 Chung-le Wu, National Cheng Kung University Diffuse Correlation Spectroscopy for Noninvasive Cerebral Blood Flow Measurement

Day 3 (2018 / 9 / 8)	
Time	**Details**
8:00~8:50	***Registration*** ***(College of Medicine, Second conference room)***
9:00~9:45	***Keynote Speaker 3*** **Kakeru Fujiwara** Single Pd Atoms Supported on TiO_2 by Continuous Flame Aerosol Process
	Moderator: **Shu-Ping Lin**
9:45~10:15	***Invited Speaker 2*** **Akichika Kumatani**, Tohoku University Visualization of Electrochemical Activities on Graphene Edges
	Moderator: **Shu-Ping Lin**
10:15~10:30	***Coffee Break***
10:30~11:30	***Session 5: Chemical session***
	Chair: **Chun-Ming Chiu, Naoto Kobayashi**
	C5 Ryosuke Yaegaki, Tohoku University Electrochemiluminescence Detection for Cellular Respiratory Activity Using Closed Bipolar Electrodes
	C6 Ching-Fang Wang, National Chung Hsing University The Detection of Diol-containing Molecules by Boronic Acid Terminated Silicon Nanowires Field-Effect Transistors
	C7 Hao-Jen Pai, Tohoku University Respiration Assay of Vascularized Cell Spheroid Using an LSI-based Electrochemical Device
	C8 Lu-Ting Lai, National Chung Hsing University Effect of Probe DNA Density on Hybridization of Long-chain RNA of Dengue Virus Detected by Electrochemical Impedimetric Spectrum
11:30~12:00	***Short Presentation***
12:00~13:00	***Lunch (4F Restaurant of College of Medicine)***

13:00~13:30	***Invited Speaker 3*** **Shin-ichiro Suye**, University of Fukui Carbon Nanomaterial for Biodevice of Biofuel Cells with Carbon Binding Peptide Fused Enzyme
	***Moderator:* Akito Masuhara**
13:30~14:00	***Invited Speaker 4*** **Shang-Hsiu Hu**, National Tsing Hua University The Penetrated Delivery of Drug/Energy to Tumors by Nano-materials
	***Moderator:* Akito Masuhara**
14:00~14:45	***Session 6: Biomedical session***
	***Chair:* Chun-Jui Chen, Takehiro Onodera**
	B5 Nguyen Tien, Vietnam France University Potenial of Applying Antioxdant Supplements in Physical Activies on Anti-senescence and Oxidative Stress in *Caenorhabditis Elegans*
	B6 Tomone Sasayama, Tohoku University Bio-based Surfactant Synthesis from 100% Biorenewable Materials Using Heterogeneous Resin Catalyst
	B7 Kai-Wei Shih, National Chung Hsing University The Portable Platform of Sensing Device Made of Silicon Nanowires Field-effect Transistors for Vaccine Development
14:45~15:15	***Coffee Break***
15:15~17:00	***Poster***
17:30~19:30	***Banquet (Rong Yuan Manghan Restaurant)***