

OS8: Advanced Physical Stimuli and Biological Responses

November 8, 2019

EX-3

- OS8-1 **Analysis of Cancer Cell Death by Microwave Normothermic Irradiation** (*Invited*)
9:00-9:30 Mamiko Asano (Kyoto University, Japan)
- OS8-2 **Using Deformable U-net and DeepLab v3+ based Semantic Segmentation to Evaluate the Activation of Plasma Treated Platelets** (*Invited*)
9:30-10:00 Tsung-Cheng Kuo, Yun-Chien Cheng (National Chiao Tung University, Taiwan)
- OS8-3 **BSA Conformational Change by Atmospheric-Pressure Plasma and Electric Field** (*Invited*)
10:00-10:30 Takamasa Okumura, Yuko Nakagawa (National Institute of Technology, Ichinoseki College, Japan), Chunhong Yuan, Katsuyuki Takahashi, Koichi Takaki (Iwate University, Japan)
- OS8-4 **Activation of Immune Cells by Nanosecond Pulsed Electric Fields** (*Keynote*)
10:40-11:25 Ken-ichi Yano, Keiko Morotomi-Yano (Kumamoto University, Japan)
- OS8-5 **Ice Recrystallization Inhibitors as Next Generation Cryoprotectants** (*Keynote*)
11:25-12:10 Robert N. Ben (University of Ottawa, Canada)
- OS8-6 **Active Control of Corona Discharge Process for Environmental and Biological Applications** (*Keynote*)
13:10-13:55 Seiji Kanazawa, Kosuke Tachibana, Takashi Furuki, Ryuta Ichiki (Oita University, Japan), Takehiko Sato (Tohoku University, Japan), Jerzy Mizeraczyk (Gdynia Maritime University, Poland)
- OS8-7 **Virus Infection Diagnosis by AI-Driven Nanopore Sensing** (*Keynote*)
13:55-14:40 Makusu Tsutsui (Osaka University, Japan)
- OS8-8 **The Role of Gas Mixtures on the Property of Plasma-Activated Water** (*Invited*)
14:50-15:20 Cheng-Chun Lai, Yong-Xin Deng, Ying-Hao Liao (National Chiao Tung University, Taiwan)
- OS8-9 **Agricultural Applications of High Voltage Pulses and Atmospheric Discharges** (*Invited*)
15:20-15:50 Katsuyuki Takahashi, Koichi Takaki (Iwate University, Japan)
- OS8-11 **Development of Biocompatible DLC Coating Method on an Inner-wall of Extended Polytetrafluoroethylene Artificial Vascular Grafts** (*Invited*)
15:50-16:20 Yuichi Imai (Okayama University of Science / STRAWB Inc., Japan), Yasuhiro Fujii, Takashi Goyama, Daiki Ousaka, Susumu Oozawa (Okayama University, Japan), Tatsuyuki Nakatani (Okayama University of Science, Japan)
- OS8-10 **Pumping Function for a Fresh-water Sponge**
16:20-16:40 Shuji Koyama, Kenji Kikuchi, Keiko Numayama-Tsuruta, Takuji Ishikawa (Tohoku University, Japan)

OS8-12 **Nano-Pulsed Current Plays a Critical Role in Plasma Treatment on Fibrosarcoma Cells**
16:40-17:00 Chia-Hsing Chang (Tohoku University, Japan), Kenichi Yano (Kumamoto University, Japan), Takehiko Sato (Tohoku University, Japan)