

OS8 : Advanced Physical Stimuli and Biological Responses

CON-2

November 9, 2018

9:10-9:15

Opening

T. Sato, T. Ohashi

9:15-10:00 OS8-1

Keynote

The Role of Small Organic Osmolytes in the Volume Regulation and Migration of Cancer Cells

V.L. Sukhorukov, D. Sisario, R. Shirakashi, S. Memmel, C.S. Djuzenova

10:00-10:30 OS8-2

Invited

Venomics Project Reveals the Evolution and Molecular Mechanism to Produce Highly Divergent Venom Proteins.

T. Ogawa

10:40-11:10 OS8-3

Invited

Dynamic Response of Living Cells to Nanosecond Pulsed Electric Fields

T. Nakabayashi

11:10-11:40 OS8-4

Invited

Vascular Endothelial Cell Mechanics in Response to Fluid Shear Stress: Mechanical Environment Inside and Outside of Cells

T. Ohashi

11:40-12:10 OS8-5

Invited

Comparing the Effects of Plasma-activated Medium with Thermal Therapy on Lung Cancer with Malignant Pleural Effusion

Y.-J. Cheng, C.-K. Lin, J.-S. Wu, Y.-C. Cheng

13:10-13:55 OS8-6

Keynote

Structure and Function of Thermosensitive TRP Channels

M. Tominaga

13:55-14:40 OS8-7

Keynote

Dynamical Flow Control of Nanoparticles Using Laser Irradiation

S. Kawano, F. Nito, R. Nagura, T. Tsuji, K. Doi

14:50-15:20 OS8-8

Invited

Basic Properties and Application Research of Fine Bubble in Water

Y. Ueda, Y. Tokuda, A. Sugiyama, N. Nihei, T. Vishnu, R. Norarat, K. Yoshikawa

15:20-15:50 OS8-9

Invited

Robust Bio-pump System of Mosquito's Blood Ingestion

K. Kikuchi

15:50-16:20 OS8-10

Invited

Numerical Investigation of Transport Characteristics of Reactive Oxygen Species in Biological Membrane with Molecular Dynamics

S. Uchida, H. Ohta, R. Imai, F. Tochikubo

16:30-16:50 OS8-11

Electric Field Analysis for Electro-piercing of Medaka Eggs by Frequency Domain Finite Element Method

R. Shirakashi, S. Wang

16:50-17:10 OS8-12

Theoretical Study on Nanostructure Formation by Angular Momentum Projection of Optical Vortex

R. Nagura, T. Tsujimura, T. Tsuji, K. Doi, S. Kawano

17:10-17:30 OS8-13

HT-1080 Cell Response to Nanosecond Pulsed Current Modeled after Atmospheric Pressure Plasma

C.-H. Chang, K. Yano, T. Sato

17:30-17:35

Closing

S. Kawano