

OS9: Biomedical Flow Dynamics

November 20, 2024

EX-3-B

- OS9-1 **Composite Electrospun Scaffolds for Biomedical Applications** (*Invited*)
9:00-9:30 Angela Jedlovszky-Hajdu, Veronika Pálos, Sarolta Halmóczy, Constantinos Voniatis (Semmelweis University, Hungary), Hanif Saifurrahman, Makoto Ohta (Tohoku University, Japan)
- OS9-2 **Simulation of Thrombosis Induced by Various Degrees of Stent Malapposition**
9:30-9:45 Hanbing Zhang, Zhuoran Qu, Shiliang Chen, Aike Qiao (Beijing University of Technology, China), Qianwen Hou (Chinese Academy of Medical Sciences, China), Hongfang Song (Capital Medical University, China), Wenyu Fu (Beijing Union University, China), Hitomi Anzai, Makoto Ohta (Tohoku University, Japan)
- OS9-3 **Development of Electrospun Nanocomposites**
9:45-10:00 Sarolta Halmóczy, Vivien Rizmayer, Kitty Osán, Angéla Jedlovszky-Hajdú, Constantinos Voniatis, Veronika Teréz Pálos (Semmelweis University, Hungary), Makoto Ohta, Hanif Saifurrahman (Tohoku University, Japan)
- OS9-4 **Dynamics of Osteoarthritic Synovial Fluid**
10:00-10:15 Darío Acevedo (National Autonomous University of Mexico, Mexico), Dana Grecov (University of British Columbia, Canada), Eugenia Corvera Poiré (National Autonomous University of Mexico, Mexico)
- OS9-5 **Evaluation of Vascular Function Focusing on Luminal Surface Topography** (*Invited*)
10:40-11:10 Mako Kobayashi (Tohoku University / Tokyo Medical and Dental University, Japan), Yoshihide Hashimoto, Akio Kishida (Tokyo Medical and Dental University, Japan), Tsuyoshi Kimura (Toyo University, Japan), Kozue Murata, Hidetoshi Masumoto (Kyoto University / RIKEN Center for Biosystems Dynamics, Japan), Hitomi Anzai, Zi Wang, Makoto Ohta, Masaya Yamamoto (Tohoku University, Japan)
- OS9-6 **Fabrication of Composite Nanofibrous Covers for Coronary Stents**
11:10-11:25 Constantinos Voniatis, Angela Jedlovszky-Hajdu (Semmelweis University, Hungary)
- OS9-7 **Polysuccinimide-Salt Electrospun Scaffold as a Potential Wound Dressing Material**
11:25-11:40 Veronika Pálos, Sarolta Halmóczy, Constantinos Voniatis (Semmelweis University, Hungary), Hanif Saifurrahman, Makoto Ohta (Tohoku University, Japan), Angela Jedlovszky-Hajdu (Semmelweis University, Hungary)
- OS9-8 **Structural Modification of Catheter-Type Tactile Sensor Using Polyvinylidene Fluoride (PVDF) Film**
11:40-11:55 Souichiro Nagano, Kazuto Takashima, Masahiro Watanabe (Kyushu Institute of Technology, Japan), Kenji Ishida (Kyushu University, Japan)

OS9-9 14:50-15:05	Cancelled
OS9-10 15:05-15:20	Hemodynamic Effects on Aneurysm Endovascular Coil Porosity <u>Nadia Shaira binti Shafii</u> (Universiti Teknologi Malaysia, Malaysia), Ryuhei Yamaguchi (Tohoku University, Japan), Kahar Osman (Universiti Teknologi Malaysia, Malaysia), Mohamad Ikhwan Kori, Ahmad Zahran Md Khudzari (Universiti Teknologi Malaysia, Malaysia), Makoto Ohta (Tohoku University, Japan)
OS9-11 15:20-15:35	Cancelled
OS9-12 15:35-15:50	Microfluidic Liquid Dispenser: Effects of Boundary Condition on Single Droplet Formation <u>Petrus Diyos Widhi Prasetya</u> , Suprijanto (Institut Teknologi Bandung, Indonesia), Tuwuh S. Wibowo (FORMULATRIX Indonesia, Indonesia), Makoto Ohta, Hitomi Anzai (Tohoku University, Japan), Narendra Kurnia Putra (Institut Teknologi Bandung, Indonesia)
OS9-13 15:50-16:05	Numerical Simulations in 3D Airway Models for Respiratory Droplet Generations Using DPM-EWF <u>Naoki Kobayashi</u> , Makoto Ohta, Hitomi Anzai (Tohoku University, Japan)
OS9-14 16:30-16:45	Numerical Modeling of Histotripsy Induced by High-Intensity Focused Ultrasounds Paolo Guida, <u>William L. Roberts</u> (Clean Energy Research Center, Saudi Arabia)
OS9-15 16:45-17:00	Validation of Fluid-Structure Interaction Analysis Using Particle Image Velocimetry in a Cerebral Aneurysm <u>Shuhei Sato</u> , Gaku Tanaka (Chiba University, Japan), Makoto Ohta, Ryuhei Yamaguchi (Tohoku University, Japan)
OS9-16 17:00-17:15	A Computational Fluid Dynamics-based Framework for Slip-Resistance Performance of Progressively Worn Common Outsole Designs: Implications on Slips and Falls <u>Shubham Gupta</u> , Arnab Chanda (Indian Institute of Technology (IIT) Delhi / All India Institute of Medical Sciences (AIIMS) Delhi, India)
OS9-17 17:15-17:30	CFD Study on Relationship between Occurrence of Portal Vein Thrombosis and Wall Shear Stress after Hepatectomy <u>Shunsuke Nakajima</u> , Yoshiki Iijima, Mamoru Takada, Isamu Hosokawa, Masayuki Otsuka, Gaku Tanaka (Chiba University, Japan)