

OS9: Biomedical Flow Dynamics

November 11, 2022

EX-4-A

- OS9-1 **A Relationship between Pathology and Physics in the Progression of Intracranial Aneurysms** *(Invited)*
9:00-9:40 Takanobu Yagi (Waseda University, Japan)
- OS9-2 **A ConvNeXt-backbone Model with Multi-channel Photometric Distortion for Malignant Tumor Segmentation and Localization of Oropharyngeal Squamous Cell Carcinoma and Esophageal Squamous Cell Carcinoma**
9:40-9:55 Kun-Tai Kao (National Taiwan University, Taiwan), Min-Shu Hsieh (National Taiwan University Hospital, Taiwan), Ruey-Feng Chang (National Taiwan University, Taiwan)
- OS9-3 **Comparing the Pharmacokinetic Parameters of ICG via Lymphatic Drug Delivery and the Intravenous Injection**
9:55-10:10 Namugga Bridget, Ariunbuyan Sukhbaatar, Tetsuya Kodama (Tohoku University, Japan)
- OS9-4 **A Plausible Explanation For The Frequency Of Cough. Pulsatile Parallel Flow Of Air And Mucus In The Trachea.** *(Invited)*
10:40-11:20 Pablo Alberto de la Guerra, Eugenia Corvera Poiré (Universidad Nacional Autónoma de México, Mexico)
- OS9-5 **Ballistic Delivery of Microliquid Jets: Analysis for Drug Delivery**
11:20-11:35 Priyanka Hankare, Viren Menezes (Indian Institute of Technology Bombay, India)
- OS9-6 **Virtual Angiography for Evaluation of Velocity Estimation Method**
11:35-11:50 Yutaro Kohata (Tohoku University, Japan), Méghane Decroocq, Simon Rit, Carole Frindel (Université de Lyon, France), Makoto Ohta, Hitomi Anzai (Tohoku University, Japan)
- OS9-7 **In Vivo Pharmacokinetic Profiling of Solvents of Varying Osmotic Pressures and Viscosities**
11:50-12:05 Radhika Mishra, Ariunbuyan Sukhbaatar, Shiro Mori, Tetsuya Kodama (Tohoku University, Japan)
- OS9-8 **Virtual Multilayer Stenting Simulation based on Spring-Mass Analogy** *(Invited)*
13:10-13:30 Muhammad Rafi Sudrajat (Institut Teknologi Bandung, Indonesia), Bonfilio Nainggolan (Arizona State University, USA), Mikha Hilliard, Narendra Kurnia Putra (Institut Teknologi Bandung, Indonesia)
- OS9-9 **Geometrical Analysis of Standard Cerebrovascular Coordinates** *(Invited)*
13:30-13:50 Hitomi Anzai, Ko Kitamura (Tohoku University, Japan), Naoko Mori, Shunji Mugikura (Tohoku University Hospital, Japan), Makoto Ohta (Tohoku University, Japan)

- OS9-10
13:50-14:05 **A Closed-loop Geometric Multi-scale Model for Predicting Instantaneous Wave-free Ratio Based on Coronary Pre-arterioles Compensation**
Jincheng Liu, Bao Li, Liyuan Zhang (Beijing University of Technology, China), Mingzi Zhang (Macquarie University, Australia), Aike Qiao, Youjun Liu (Beijing University of Technology, China)
- OS9-11
14:05-14:20 **Validity of Multivariate Normality Assumption for Data Augmentation on Artery Centerlines**
Kazuyoshi Jin, Ko Kitamura (Tohoku University, Japan), Naoko Mori, Shunji Mugikura (Tohoku University Hospital, Japan), Makoto Ohta, Hitomi Anzai (Tohoku University, Japan)
- OS9-12
14:20-14:35 **Prediction of Fractional Flow Reserve Based on Reduced-Order Cardiovascular Model**
Yili Feng, Youjun Liu (Beijing University of Technology, China)