OS9 : Biomedical Flow Dynamics

<u>EX-3</u>
<u>November 9, 2018</u>

10:40-11:10 OS9-1
Invited
On a Relation between Aorta Morphology and Blood Flow Characteristics
<u>H. Suito</u> , T. Ueda, H. Ota

11:10-11:30 OS9-2
Invited
Elucidation of Mechanism of Fiber Bragg Grating Vital Sensing by Ultrasonic-Measurement-Integrated Simulation: Flow Analysis in Ultrasound Flow Phantom
<u>S. Miyauchi</u> , T. Hayase, K. Inoue, T. Ogasawara, T. Tsuboi, A. Shirai, S. Chino, S. Koyama, H. Ishizawa

11:30-11:45 OS9-3
Efficient Mixing and Multidirectional Pumping on Centrifugal Microfluidic Platforms
A.K. Jahromi, M. Saadatmand, <u>M. Eghbal</u> , H. Shieh

11:45-12:00 OS9-4
An Eulerian-Lagrangian Approach for Blood Flow around an Obstacle
<u>M. Hosaka</u> , T. Nagata, S. Takahashi, K. Fukuda, S. Goto

13:10-13:40 OS9-5
Invited
Effect of Valve Height on the Opening and Closing Performance of Aortic Valve under the Growth State of Aortic Root
<u>A. Qiao</u> , G. Liu, K. Peng, M. Ohta

13:40-13:55 OS9-6
Fundamental Study of MR-Measurement-Integrated Simulation of Heart-Aorta-System:Analysis of Ascending Aorta
<u>Y. Hori</u> , T. Hayase, S. Miyauchi, K. Inoue, A. Lalande, C. Acquitter, J.-J. Christophe

13:55-14:10 OS9-7
Numerical Analysis of the Influence of Heart Disease on Blood Flow Field in the Left Ventricle: Influence of Aortic Stenosis
<u>T. Takada</u> , S. Miyauchi, T. Hayase

14:10-14:25 OS9-8
Hemodynamic Study on Coronary Artery Aneurysms with Bypass Surgery
<u>H. Wang</u> , H. Anzai, M. Ohta, Y. Liu

14:50-15:20 OS9-9
Invited
Cerebral Aneurysm Hemodynamics Based on a Quasi-Mechanistic Blood Flow Model
<u>K.M. Saqr</u> , M. Ohta

15:20-15:40 OS9-10
Invited
Modelling Flow-Diverting Stent as a Porous Medium in the Study of Post-Treatment Aneurysmal Haemodynamics
Y. Li , M. Ohta, Y. Qian

15:40-15:55 OS9-11
Study of Hemodynamic Parameters to Identify Thickening and Thinning Parts of Cerebral Aneurysm Wall:Evaluation of Confined Relative Residence Time based on Analysis of Transport Equation
K. Aoki , S. Miyauchi, T. Hayase, S. Sugiyama, T. Tominaga

15:55-16:10 OS9-12
Numerical Analysis of the Effect of the Inner Structure of a Left Ventricle on the Blood Flow Field: Effect of Papillary Muscles and Trabeculae Carneaes
K. Hosoi , S. Miyauchi, T. Hayase

16:30-16:50 OS9-13
Invited
Perspective of Development for PVA-H Custom-made Blood Vessel Models
Y. Shimizu , S. Tupin, K. Yu, R. Nagano, C. Kiyomitsu, H. Yoshida, T. Matsunaga, J. Kuzusako
N. Kihara, K. Takashima, Y. Haga, M. Ohta

16:50-17:10 OS9-14
Invited
Haemodynamics Effects of Incomplete Stent Expansion on Flow-Diversion Treatment of Intracranial Aneurysms
M. Zhang , Y. Qian, M. Ohta

17:10-17:25 OS9-15
Research on Arterial Stiffness in Type 2 Diabetic Patients Based on Pulse Wave Analysis
G. Li , X. Song, A. Qiao, M. Ohta

17:25-17:40 OS9-16
Numerical Analysis on Biomechanics of Magnesium Alloy Stent with Different Length Ratio of Link and Strut
H. Zhang , A. Qiao

17:40-17:55 OS9-17
Finite Element Analysis for Flows in a Tumor Capillary Considering a Leakage to Interstitium
T. Takeda , S. Miyauchi, T. Hayase