

Pre-nominated Session FM1

Biological fluid dynamics

Co-Chair(s): M. Gharib (USA)
 F. van de Vosse (Netherlands)

Paper ID	Title	Authors
FM1L_10132	Mechanics of the Bounding Flight Revisited	Takeshi Sugimoto
FM1S_10741	Deformation of Vesicles Flowing Through a Capillary	Victoria Vitkova, Maud Mader, Thomas Podgorski
FM1L_11013	How to Breathe in a Liquid-Filled Lung: Symmetry of Airway Reopening	Charles N. Baroud, Matthias Heil
FM1S_11187	Computational Exploration of Liver Acinus Microstructure	H. P. Rani, Tony W. H. Sheu, P. C. Liang
FM1L_11441	Bacterium Swimming Motion Close to a Wall	Tomonobu Goto, Kousou Nakata, Yukio Magariyama, Masaharu Nishimura
FM1L_11851	A CFD Study of the Effects of Physiological Vessel Wall Motion on Oxygen Transport in Coronary Arteries	Maheshwaran K. Kolandavel, Ernst-Torben Freund, Erik M. Pedersen, Steffen Ringgaard, Peter G. Walker
FM1L_11900	In Vivo PIV Measurement in the Embryonic Chicken Heart	Peter Vennemann, Kenneth T. Kiger, Beerend P. Hierck, Nicolette T. C. Ursem, Timo L. M. Ten Hagen, Jerry Westerweel
FM1S_11908	A Model of Plankton Dynamics Coupled with a LES of the Surface Mixed Layer	David M. Lewis
FM1S_11943	Self - Propulsion of an Oscillatory Wing	Adrian S. Carabineanu
FM1L_12063	Bioirrigation in Marine Sediments: Ecological Conclusions from Numerical Modelling	Oleksiy S. Galaktionov, Filip J. R. Meysman, Jack J. Middelburg
FM1L_12124	Direct Numerical Simulation of Red Blood Cell Flow and Aggregation	Cyrus K. Aidun, E-Jiang Ding

FM1L_12295	Three - Dimensional Airway Reopening - Finite - Reynolds - Number Effects	Andrew L. Hazel, Matthias Heil
FM1L_12400	Cell Permeabilisation and Transport Focused Around Oscillating Microbubbles	Philippe Marmottant, Sascha Hilgenfeldt, Michel Versluis, Han Gardeniers, Albert van den Berg, Detlef Lohse
FM1S_12409	Computational Model of Selected Transport Processes in an Infant Incubator	Maciej K. Ginalski, Andrzej J. Nowak
FM1L_12423	Red Blood Cell Dynamics, Deformation and Rheology via Microfluidic Experiments	Manouk Abkarian, Magalie Faivre, Annie Viallat, Howard A. Stone
FM1L_12522	Flow in an Integrated Model of Heart and Aorta	Masanori Nakamura, Shigeo Wada, Suguru Yokosawa, Haruo Isoda, Ken-Ichi Tsubota, Takami Yamaguchi
FM1S_12655	In Vivo Visualization of the Water Refilling Process in Xylem Vessels Using Synchrotron X - Ray Micro - Imaging	Yang - Min Kim, Sang - Joon Lee
FM1L_12784	On the Issue of Optimal Trans - Mitral Flow	M. Gharib, E. Rambod, A. Kheradvar, D. Sahn