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FINAL PROGRAM

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Poster Presentations

- T246j** **3D MICROSTRUCTURES TO REALIZE SINGLE CELL CULTURE ON DIGITAL MICROFLUIDIC CHIP FOR PRECISE MEDICINE**
Jiao Zhai¹, Yunyi Li¹, Cheng Dong¹, Haoran Li¹, Yanwei Jia¹, Pui-in Mak¹, Rui P. Martins^{1,2}
¹University of Macau, China, ²Universidade de Lisboa, Portugal
- T247j** **AUTOMATED MICROCHANNEL ALIGNMENT USING INNATE LASER INDUCED FLUORESCENCE SIGNATURE FOR MICROCHIP ELECTROPHORESIS**
An-Chi Tsuei¹, Daniel Mills², Satvinder Panesar², Chris Birch¹, Jingyi Li², Dan Nelson¹, Margarita Startseva¹, Brian Root¹, James Landers¹
¹University of Virginia, USA, ²TeGrex Technologies, USA
- W219j** **WATER-REPELLENCY BY NANO-METER SCALE TACK STRUCTURES OF INFANT WATER STRIDER'S LEG SURFACE**
Kaoru Uesugi¹, Hiroyuki Mayama², Keisuke Morishima¹
¹Osaka University, Japan, ²Asahikawa Medical University, Japan
- W220j** **DNA STRETCHING INDUCED BY POLYMER SOLUTION STREAM IN 1-MM CHANNEL**
Ken Hirano¹, Takashi Iwaki², Kenichi Yoshikawa^{1,3}
¹AIST, Japan, ²Oita University, Japan, ³Doshisha University, Japan
- W221j** **ELASTO-TWEEZERS: A NOVEL PLATFORM FOR HIGH-PRECISION CELL ELASTICITY MEASUREMENTS**
Sebastian Knust¹, Andy Sischka², Hendrik Milting³, Bastien Venzac⁴, Séverine Le Gac⁴, Elwin Vrouwe⁵, Martina Viefhues¹, Dario Anselmetti¹, Karsten Gall²
¹Bielefeld University, Germany, ²Ionovation GmbH, Germany, ³Ruhr University of Bochum, Germany, ⁴University of Twente, The Netherlands, ⁵Micronit Microtechnologies B.V., The Netherlands
- W222j** **IN-VITRO SPERMATOGENESIS STUDY USING TESTIS-ON-CHIP MODELS**
Bastien Venzac¹, Swati Sharma², Hoon Suk Rho¹, Naere Ghazarian¹, Stefan Schlatt², Séverine Le Gac¹
¹Twente University, The Netherlands, ²University of Münster, Germany
- W223j** **MIMICKING ARTICULAR MOTION IN A CARTILAGE-ON-A-CHIP MODEL**
Carlo Alberto Paggi, Bastien Venzac, Jeroen Leijten, Séverine Le Gac
Twente University, The Netherlands
- W224j** **APPLICATION OF A THERMAL SENSOR SYSTEM FOR THE MEASUREMENT AND CHARACTERIZATION OF BIOFILM REMOVAL BY THE DISINFECTANTS ETHANOL, PERACETIC ACID AND SODIUM HYPOCHLORITE IN REAL-TIME**
Tobias Wieland¹, Jan K. Kotthaus¹, Matthias Hügler^{1,2}, Michael Bergmann¹, Gerald A. Urban¹
¹Albert-Ludwigs-Universität Freiburg, Germany, ²Brandenburg Medical School Theodor Fontane, Germany
- W225j** **MANUFACTURABLE SYSTEM FOR ZOO NOTIC DISEASE DETECTION**
Egan H. Doeven, Yi Heng Nai, Richard Alexander, Steven Haswell, Rosanne Guijt
Deakin University, Australia