<table>
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<th>Time</th>
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<tbody>
<tr>
<td>08:00-09:00</td>
<td>Workshop Registration</td>
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<tr>
<td>09:00-12:00</td>
<td>Morning Workshops (10:30 Break)</td>
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<tr>
<td>13:30-14:00</td>
<td>Workshop Registration</td>
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<tr>
<td>14:00-17:00</td>
<td>Afternoon Workshops (15:30 Break)</td>
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<tr>
<td>17:00-19:00</td>
<td>Conference Registration and Check-in - Kaohsiung Exhibition Center</td>
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<tr>
<td>17:00-19:00</td>
<td>Welcome Reception Dinner Buffet - Kaohsiung Exhibition Center</td>
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<tr>
<td>08:00-18:00</td>
<td>Registration and Check-in</td>
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<td>08:30-09:00</td>
<td>Opening Remarks</td>
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<tr>
<td>09:00-09:45</td>
<td>Plenary Presentation I</td>
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<tr>
<td></td>
<td>Chih-Ming Ho, UCLA, USA</td>
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<tr>
<td>09:45-10:15</td>
<td>Break - Exhibit and Poster Inspection</td>
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<tr>
<td>10:15-11:35</td>
<td>Session 1A1: Separation Techniques</td>
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<tr>
<td></td>
<td>3581 Tunable 3D helical inertial microfluidics constructed</td>
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<tr>
<td></td>
<td>with PDMS-Parylene flexible microfluidic system</td>
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<td></td>
<td>Presenter: Bum-Joon Jung, Korea Advanced Institute of Science and</td>
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<tr>
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<td>Technology (KAIST)</td>
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<tr>
<td>10:15-10:35</td>
<td>3591 Electrophoretic cytometry: Single-cell separations on</td>
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<td>microparticles to elucidate biological variation</td>
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<td>Presenter: Burcu Gumiscu, UC Berkeley</td>
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<td>10:35-10:55</td>
<td>3594 DNA origami nanostructured surfaces for enhanced detection</td>
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<td>of molecular interactions</td>
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<td></td>
<td>Presenter: Devin Daems, KU</td>
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<td>10:55-11:15</td>
<td>3766 Quantifying the DNA Hybridization Kinetics in Live Cells</td>
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<td>using a 3D Single-Molecule Tracking Technique</td>
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<td>Presenter: Yuan-I Chen, University of Texas at Austin</td>
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<tr>
<td>11:15-11:35</td>
<td>3928 Grayscale lithography system and water transfer printing</td>
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<td>method for fabricating and printing biomimetic structures</td>
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<tr>
<td></td>
<td>Presenter: Kibeom Kim, Kyung Hee University</td>
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<tr>
<td>11:35-12:35</td>
<td>Lunch</td>
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<tr>
<td>1409</td>
<td>3750 Toehold-mediated DNA strand displacement reactions for</td>
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<td>quantitative paper-based diagnostics</td>
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<td>Presenter: Elizabeth Phillips, Purdue University</td>
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<tr>
<td>1409</td>
<td>3750 Effect of temperature distribution in microtube and</td>
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<td>microfluidic channel for DNA origami assembly</td>
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<td></td>
<td>Presenter: Keita Hara, Osaka University</td>
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<tr>
<td>1409</td>
<td>3564 Entropy-driven self-assembly of mesoscale three-dimensional</td>
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<td>objects</td>
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<td></td>
<td>Presenter: Prof. Hiroaki Suzuki, Chuo University</td>
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<tr>
<td>3594</td>
<td>2656 Grayscale lithography system and water transfer printing</td>
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<td>Presenter: Kibeom Kim, Kyung Hee University</td>
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<td>3581 Tunable</td>
<td>3928 Grayscale lithography system and water transfer printing</td>
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<td>3591 Electrophoretic cytometry:</td>
<td>3766 Quantifying the DNA Hybridization Kinetics in Live Cells</td>
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<td>3331 Rapid and dynamic switching of physicochemical environments for</td>
<td>3594 DNA origami nanostructured surfaces for enhanced detection of</td>
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<td>3594 DNA origami nanostructured surfaces for enhanced detection of</td>
<td>molecular interactions</td>
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<td>Presenter: Kibeom Kim, Kyung Hee University</td>
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<tr>
<td>Time</td>
<td>Session 1A2: Dielectrophoresis</td>
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<td>12:35-14:05</td>
<td>Keynote Presentation Chiafu Chou</td>
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<tr>
<td>12:35-13:05</td>
<td>3794 Microfluidic Dielectrophoresis Enables Rapid Characterization of Lipopolysaccharide Modification in Gram-Negative Bacteria Presenter: Dr. Qianru Wang, Massachusetts Institute of Technology (MIT)</td>
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<tr>
<td>13:05-13:25</td>
<td>3794 Microfluidic Dielectrophoresis Enables Rapid Characterization of Lipopolysaccharide Modification in Gram-Negative Bacteria Presenter: Dr. Qianru Wang, Massachusetts Institute of Technology (MIT)</td>
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<tr>
<td>13:25-13:45</td>
<td>2669 Dielectrophoretically Oriented Porous Microcapsule to Modulate Mechanical Property of hydrogel and Spatial Drug Delivery for Facilitating Neural Stem Cell Differentiation Presenter: Dr. min-Yo Chiang, National Chiao Tung University</td>
</tr>
<tr>
<td>14:05-16:05</td>
<td>1620 Dielectrophoretic Manipulation for Robust Liquid Marble-Based Digital Microfluidics Presenter: Prof. Nam-Trung Nguyen, Griffith University</td>
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<tr>
<td>14:05-16:05</td>
<td>3466 An Array-type Microfluidic Chip for Multiple Subtyping of Influenza A Viruses by using Chemically Synthesized Pentasaccharide-Coated Magnetic Beads and RT-PCR Presenter: Kao-Mai Shen, National Tsing Hua University</td>
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<tr>
<td>16:05-16:50</td>
<td>Poster Session 1</td>
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<td>16:50-17:00</td>
<td>Plenary Presentation II Uwe Marx, TissUse GmbH, Germany</td>
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<td>17:00-17:40</td>
<td>3476 Fluorescence Ghost Imaging-activated Cell Sorter Presenter: Yoko Kawamura, Thinkcyte Inc.</td>
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<td>17:00-17:40</td>
<td>3599 C.H.A.D.: Continuous Heterogeneous Assay in Droplets for the Measurement of Cortisol Presenter: Gareth Evans, University of South Hampton</td>
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<tr>
<td>17:00-17:20</td>
<td>1385 Gradual Capacitance for Particle tracking in Micro-channels Presenter: Miguel Solsona, University of Twente</td>
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<td>09:30-10:00</td>
<td>3430 Engineering of a 3D Vascularized Tissue-on-a-Chip Using Human iPSC-derived Cells</td>
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<td>09:30-09:50</td>
<td>Presenter: Dr. Yu-suke Torisawa, Kyoto University</td>
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**Tuesday November 13**

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<tr>
<th>Time</th>
<th>Session A2: Centrifugal platform/ Blood Analysis</th>
<th>Session B2: Organ-on-a-Chip</th>
<th>Session C2: Serology/ Immunization</th>
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<td>Break - Exhibit and Poster Inspection</td>
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<tr>
<td>11:00-12:20</td>
<td>MicroTAS 2018 Shark Tank Competition</td>
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<td>12:20-13:20</td>
<td>Lunch</td>
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<tr>
<td>Time</td>
<td>Session 1: Keynote Presentations</td>
<td>Session 2: Lab Presented Papers</td>
<td>Session 3: Plenary Presentations</td>
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<tr>
<td>13:50-14:10</td>
<td>Lab-on-a-Disc for Fully Automated Isolation of Extracellular Vesicles from Whole Blood of Cancer Patients</td>
<td>3463 A Biomimetic Circular 3D Stenosis Model for Whole Blood Perfusion and Direct Platelet Monitoring in Aspirin Therapy</td>
<td>1614 Measles Immunization Status Test Using 3D-Printed Capillaric Circuits</td>
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<tr>
<td></td>
<td>Presenter: Chi-Ju Kim, UNIST</td>
<td>Presenter: Dr. Nishanth Venugopal Menon</td>
<td>Presenter: Arya Tavakoli, McGill University</td>
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<tr>
<td>14:10-14:30</td>
<td>3808 High-Yield Automated Extraction of Nucleic Acids from Whole Blood Using a Centrifugal Microfluidic Platform with Active Pneumatic Pumping</td>
<td>3236 Exploring the Chemoresistance Mechanisms of Leukemia in a biomimetic 'Leukemia-on-a-Chip' Microsystem</td>
<td>2920 Lab in a Backpack: Portable Digital Microfluidics for Serosurveillance in Resource-Limited Settings</td>
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<td></td>
<td>Presenter: Dr. Daniel Brassard, National Research Council</td>
<td>Presenter: Prof. Weiqang Chen, New York University Tandon School of Engineering</td>
<td>Presenter: Alexandros A. Sklavounos, University of Toronto</td>
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<tr>
<td>14:30-14:50</td>
<td>3405 Multi-Staged Inertial and Impedance Cytometer for Direct Label-Free Leukocyte Sorting and Profiling from Whole Blood</td>
<td>2675 A Tetris-Like (TILE) Modular Microfluidic Platform for Mimicking Multi-Organ Systemic Interactions</td>
<td>3676 Liver-immune Co-culture Array Predicts Drug-metabolism Induced Skin Sensitization</td>
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<td></td>
<td>Presenter: Chaykorn Petchakup, School of Mechanical and Aerospace Engineering, Nanyang Technical University</td>
<td>Presenter: Louis Ong, National University of Singapore, Singapore</td>
<td>Presenter: Lor Huai Chong, National University of Singapore</td>
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<tr>
<td>14:50-17:35</td>
<td>Poster Session 2</td>
<td>Plenary Presentation IV</td>
<td>Johnsee Lee, Personal Genomics, Taiwan</td>
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<tr>
<td>14:50-16:50</td>
<td>Exhibitor Industrial Stage 2 Schott Nexterion - DuPont - WinMEMS Technologies Co. Ltd. - NIL Technology APS + Titan Electro-Optics Co. Ltd.</td>
<td>16:50-17:35 Plenary Presentation IV</td>
<td>Johnsee Lee, Personal Genomics, Taiwan</td>
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<tr>
<td>17:35-17:55</td>
<td>Session 2A3: Cellular Metabolism</td>
<td>Session 2B3: Droplets - Interesting Mechanisms</td>
<td>Session 2C3: Cytometry/Sensors</td>
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<td>3402 Circulating Tumor Cells Isolation Based on Their Altered Metabolism with Droplet Microfluidics</td>
<td>3408 Navigation of Droplets Through Micropillars Using an AC Electric Field</td>
<td>3147 Smart Contact Lens for Continuous Colorimetric Intraocular Pressure Monitoring</td>
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<tr>
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<td>Presenter: Francesca Rivello, Radboud University</td>
<td>Presenter: Adrian Teo, Griffith University</td>
<td>Presenter: Bohee Maeng, Sogang University</td>
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<td>Presenter: Dr. Bishnubrata Patra, School of Chemistry, University of South Hampton, UK</td>
<td>Presenter: Dr. Adrian Nightingale, University of South Hampton</td>
<td>Presenter: Takayuki Akai, Osaka University</td>
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<tr>
<td>Time</td>
<td>Session 3A1: Nano-fluidics / Nano-Pores</td>
<td>Session 3B1: Droplet Generation &amp; Manipulation</td>
<td>Session 3C1: Particle Preparation</td>
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<td>Presenter: Keisuke Shimizu, Tokyo University of Agriculture and Technology</td>
<td>Presenter: Pengfei Zhang, Johns Hopkins University</td>
<td>Presenter: Dr. Daniel Stoecklein, University of California, Los Angeles</td>
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<tr>
<td>09:30-09:50</td>
<td>3748 Integrated Droplet Generation and Assembly Platform with Precisely Controlled Droplet Contents and Uniform Droplet Incubation Duration</td>
<td>2708 Long-term Continuous Online Monitoring of Antibody Purity Using a Nanofluidic Device</td>
<td>2912 Device-free Monodisperse Droplet Generation Using 3D-Structured Janus Microparticles</td>
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<td>Presenter: Seungman Choi, Department of Mechanical Engineering, Tokyo Institute of Technology</td>
<td>Presenter: TaeHong Kwon, Massachusetts Institute of Technology</td>
<td>Presenter: Dr. Chueh-Yu Wu, Department of Biomedical Engineering, UCLA</td>
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<td>09:50-10:10</td>
<td>2708 Long-term Continuous Online Monitoring of Antibody Purity Using a Nanofluidic Device</td>
<td>3715 Mechanically and Directionally Tunable Soft Step Emulsification</td>
<td>2922 Next Generation Optofluidic Fabrication for Sub-100 Micron 3D Particles</td>
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<td>Presenter: TaeHong Kwon, Massachusetts Institute of Technology</td>
<td>Presenter: Seungman Choi, Department of Mechanical Engineering, Tokyo Institute of Technology</td>
<td>Presenter: Dr. Kevin Paulsen, Lawrence Livermore National Laboratory</td>
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<td>10:10-10:30</td>
<td>2715 Proton Transfer Mechanism in Extended-Nano Space Investigated by H+/D+ Isotope Effect</td>
<td>1495 Plug-n-Play Biosensors for Multimodal Digital Microfluidic Analytics</td>
<td>3911 Cloaked Exosomes: Biocompatible, Durable, and Degradable Encapsulation Through Microfluidic Rapid Mixing</td>
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<td>Presenter: Prof. Kazuma Mawatari, The University of Tokyo</td>
<td>Presenter: Dr. Richard Piffer Soares de Campos, University of Toronto</td>
<td>Presenter: Sumit Kumar, IBS CSLM</td>
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<td>10:30-10:50</td>
<td>2643 A self-powered enzymatic microtubular sensor based on streaming current</td>
<td>3431 Self-Construction of Eiffel tower-inspired Tip-merged Polymeric</td>
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<td>Presenter: Longteng Yu, National University of Singapore</td>
<td>Presenter: Jeeun Lim, Seoul National University</td>
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<td>10:50-11:20</td>
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<td>Presenter: Dr. Haruka Oda, The University of Tokyo</td>
<td>Presenter: Youngkyu Cho, Korea University</td>
<td>Presenter: Dr. Kerwin Kwek Zeming, Sigapore-MIT Alliance for Research and Technology, BioSym</td>
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<td>Presenter: Xuan Li, University of California, Irvine</td>
<td>Presenter: Grant Ongo, McGill</td>
<td>Presenter: Masachi Ugawa, ThinkCyte Inc.</td>
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<td></td>
<td>Presenter: Dr. Soo Hyeon Kim, Institute of Industrial Science, The University of Tokyo and JST, PRESTO</td>
<td>Presenter: Li Pan, State Key Laboratory of Robotics Shenyang Institute of Automation, Chinese Academy of Sciences</td>
<td>Presenter: Meng Ting Chung, University of Michigan- Ann Arbor</td>
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<tr>
<td>12:20-13:20</td>
<td><strong>Lunch</strong></td>
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<td>13:20-14:05</td>
<td><strong>Plenary Presentation V</strong> Plenary Presentation V</td>
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<td>Tomokazu Matsue, Tohoku University, Japan</td>
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<td>14:05-14:15</td>
<td><strong>MicroTAS 2019 Announcement</strong></td>
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<td>14:15-14:25</td>
<td><strong>TRANSITION</strong></td>
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<td>14:25-14:35</td>
<td><strong>Session 3A3: Flexible/Wearable &amp; Environment applications</strong></td>
<td><strong>Session 3B3: Sorting / Cell Separation</strong></td>
<td><strong>Session 3C3: Drug Screening</strong></td>
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<td></td>
<td><strong>Keynote Presentation Róisín M. Owens</strong></td>
<td><strong>Keynote Presentation Nicole Pamme</strong></td>
<td><strong>Keynote Presentation Pak Kin Wong</strong></td>
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<td>Presenter: Taisuke Shimada, Nagoya University</td>
<td>Presenter: Jay Mallinson, AcouSort AB</td>
<td>Presenter: Dr. Joseph Fantuzzo, Rutgers University</td>
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<td>Time</td>
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<td>15:15-15:35</td>
<td>3065 Wiring on Stretchable Material by Agglutination and Adhesion of Metallic</td>
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<td>Nanoparticle using Electrically Induced Microbubbles</td>
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<td>Presenter: Ren Masuda, Kyushu University</td>
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<td>3971 Method for Selecting Optimal Operation Frequencies in Bulk</td>
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<td>Acoustophoretic Devices</td>
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<td>Presenter: Dr. Andreas Lenshof, Lund University</td>
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<td>3991 Microfluidic Multi-Organ Platform to Study the Effects of Prodrugs on Early</td>
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<td>Embryonic Development</td>
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<td>Presenter: Julia Alicia Boos, ETH Zurich</td>
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<td>15:35-17:35</td>
<td>Poster Session 3</td>
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<td>16:00-17:35</td>
<td>Art in Science Award</td>
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<td>17:35-18:35</td>
<td>Transition to Banquet</td>
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<td>18:35-21:35</td>
<td>Conference Banquet</td>
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<td>08:00-11:00</td>
<td>Registration</td>
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<td>08:00-08:05</td>
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<td>08:05-08:50</td>
<td>Plenary Presentation VI</td>
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<td>Evi Lianidou, University of Athens, Greece</td>
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<td>08:50-09:00</td>
<td>TRANSITION</td>
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<td>09:00-10:00</td>
<td>Session 4A1: Genetics / DNA</td>
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<td>Session 4B1: Fluid Manipulation</td>
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<td>Session 4C1: Droplet Application: Manufacturing/Analytics</td>
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<td>09:00-09:20</td>
<td>1500 A Study of Ion Wind Generator Using Parallel Arranged Electrode Configuration for Centrifugal Flow Mixer</td>
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<td>Presenter: Dr. Tung Thanh Bui, University of Engineering and Technology, Vietnam National University</td>
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<td>09:20-10:00</td>
<td>2653 An Automated Microfluidic Gene-editing Platform for Deciphering Cancer Genes</td>
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<td>Presenter: Prof. Steve Shih, Concordia University</td>
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<td>3148 Multimodal Analysis of Phytase-Producing Yeast in Nanoliter Droplet Arrays</td>
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<td>Presenter: Dominik Hummer, ETH Zurich</td>
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<td>09:40-10:00</td>
<td>1335 A CMOS Based Lab-on-Chip Diagnostic System for Rapid Detection and Serotyping of the Dengue Virus</td>
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<td>Presenter: Dr. Ling-Shan Yu, Imperial College London</td>
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<td>2852 A Parallelized Droplet Magnetofluidic Platform for Automated Detection of Cancer Methylation Biomarkers</td>
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<td>Presenter: Alexander Trick, Johns Hopkins University</td>
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<tr>
<td>10:00-10:30</td>
<td>Coffee Break</td>
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<td>10:30-11:30</td>
<td>Session 4A2: Cell Assay / Phenotyping</td>
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<td>1015-15:35</td>
<td>Plenary Presentation VI</td>
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<td>Poster Session 3</td>
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<td>16:00-17:35</td>
<td>Art in Science Award</td>
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<td>Transition to Banquet</td>
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<td>08:00-11:00</td>
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<td>08:00-08:05</td>
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<td>Plenary Presentation VI</td>
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<td>Evi Lianidou, University of Athens, Greece</td>
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<td>08:50-09:00</td>
<td>TRANSITION</td>
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<td>09:00-10:00</td>
<td>Session 4A1: Genetics / DNA</td>
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<td>Session 4B1: Fluid Manipulation</td>
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<td>Session 4C1: Droplet Application: Manufacturing/Analytics</td>
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<td>09:00-09:20</td>
<td>1500 A Study of Ion Wind Generator Using Parallel Arranged Electrode Configuration for Centrifugal Flow Mixer</td>
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<td>Presenter: Dr. Tung Thanh Bui, University of Engineering and Technology, Vietnam National University</td>
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<td>09:20-10:00</td>
<td>2653 An Automated Microfluidic Gene-editing Platform for Deciphering Cancer Genes</td>
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<td>Presenter: Prof. Steve Shih, Concordia University</td>
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<td>3148 Multimodal Analysis of Phytase-Producing Yeast in Nanoliter Droplet Arrays</td>
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<td>Presenter: Dominik Hummer, ETH Zurich</td>
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<td>09:40-10:00</td>
<td>1335 A CMOS Based Lab-on-Chip Diagnostic System for Rapid Detection and Serotyping of the Dengue Virus</td>
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<td>Presenter: Dr. Ling-Shan Yu, Imperial College London</td>
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<td>2852 A Parallelized Droplet Magnetofluidic Platform for Automated Detection of Cancer Methylation Biomarkers</td>
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<td>Presenter: Alexander Trick, Johns Hopkins University</td>
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<td>10:00-10:30</td>
<td>Coffee Break</td>
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<td>10:30-11:30</td>
<td>Session 4A2: Cell Assay / Phenotyping</td>
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| 10:30-10:50  | 1324 Effects of Obtuse and Acute Wall Angles of 3D Microgroove Topography on Cancer Cell Migration  
Presenter: Tomohiro Yaginuma, Department of Bioengineering, School of Engineering, The University of Tokyo | 2797 Sub-pg/mL, Multiplexed Detection of Cytokines on a Mobile-Phone, High Throughput Digital Droplet ELISA  
Presenter: Venkata Yelleswarapu, University of Pennsylvania, Issadore Lab  
2829 Development-inspired Engineering of Folded Mucosa  
Presenter: Prof. Hon Fai Chan, Chinese University of Hong Kong |
| 10:50-11:10  | 3762 Quantitative label-Free Dynamic Phenotyping of Highly Metastatic Cancer Cells  
Presenter: Dr. Jose C. Contreas-Naranjo, Texas A&M University | 1340 Towards Developing a "Droplet Motor" Driven by the Belousov-Zhabotinsky Reaction: Control of Self-Propelled Motion Using a Ratchet Microchannel  
Presenter: Dr. Taiji Okano, Chuo University  
2822 Cell Deformability Measurement Device for Labeled-free Cancer Cells Discriminating Using Ionic Current Detection  
Presenter: Taiki Suzuki, Nagoya University |
| 11:10-11:30  | 3325 Deep Learning Correlates Single-Cell Morphology with Migratory Behaviors in Microfluidics  
Presenter: Dr. Yu-Chih Chen, University of Michigan | 1404 A Magneto-Switchable Superhydrophobic Surface for Droplet Manipulation  
Presenter: Prof. Gang Li, Chongqing University  
3039 Integrative Platform for Ultrahigh Throughput Quantitative Mechanoresponse of Adhered Single Cells  
Presenter: Ming Wang, National University of Singapore |
| 11:30-11:40  | TRANSITION                                                              |                                                                                                                                                |
| 11:40-12:20  | CHEMINAS - Young Researcher Poster Awards  
Lab on a Chip - Widmer Poster Awards  
IMT Masken und Teilungen AG - Microfluidics on Glass Award |                                                                                                                                         |
| 12:20        | Closing Remarks - Conference Adjourns                                     |                                                                                                                                         |