TABLE OF CONTENTS

Scroll to the title and select a **BLUE** link to open a paper. After viewing the paper, use the bookmarks to the left to return to the beginning of the Table of Contents.

Session 1C1 - Bioinspired Materials

Session 1A2 - Tissue & Organ on a Chip

Session 1B2 - Paper-based Assay

Session 1C2 - Micro-& Nanopores

Plenary Presentation 2

Poster Session 1

Poster presentations are listed by topic category starting on page xv.

Session 1A3 - Single Cell Analysis

Session 1B3 - Particle & Cell Trapping

Session 1C3 - Digital Microfluidics

Day 2 - Tuesday, October 27

Plenary Presentation 3

Session 2A1 - Smartphone & Microscope for Diagnostics

Session 2B1 - Cell Culture & Analysis

Session 2C1 - Fabrication

Session 2A2 - Droplets: Manipulation

Session 2B2 - 3D Vascular Structures

Session 2C2 - Yeast & Worm Analysis

Poster Session 2

Poster presentations are listed by topic category starting on page xv.

Session 2A3 - 3D Printing

Session 2B3 - Drug Screening

Day 3 - Wednesday, October 28

Plenary Presentation 4

Session 3A1 - Centrifugal Microfluidics

Session 3B1 - Droplets: Biochemical Analysis

Session 3C1 - Organisms on Chip

Session 3A2 - Biomaterials

Session 3B2 - Cell Mechanics

Session 3C2 - Photonic Structures

Plenary Presentation 5

Poster Session 3

Poster presentations are listed by topic category starting on page xv.

Session 3A3 - Proteomics

Session 3B3 - Sensing Technology

Session 3C3 - Nanofluidics

Day 4 - Thursday, October 29

Session 4A1 - Paper Microfluidics

Session 4B1 - Electroporation

Session 4C1 - NMR & Raman Spectroscopy

Session 4A2 - Spheroids on Chip

Session 4B2 - Bacteria Detection

Session 4C2 - Nanochannels

Plenary Presentation 6

Poster Presentations

Cell Separation and Analysis

Cell Capture, Counting, & Sorting

Integrative Cell Analysis

Liposomes/ Vesicles

Others

Inter- & Intracellular Signaling, Cell Migration

Organs on Chip

Diagnostics, Theranostics, and Translational Medicine

Cancer Research

Clinical Chemistry

Nucleic Acid Analysis (Digital PCR, Next Generation Sequencing)

Personalized Medicine & Pharmaceutical Analysis

Protein Analysis & Characterization (e.g., Proteomics)

Fundamentals in Microfluidics and Nanofluidics

Acoustofluidics

Droplets & Multiphase Systems

Electrokinetic Phenomena

Magnetofluidics (Magnetic Particles & Related Phenomena)

Modeling/ Numerical Simulation

Nanofluidic Phenomena (Nanochannels and Nanopores)

Optofluidics

Integrated Microfluidic Platforms

Centrifugal Microfluidics

Electrokinetic Microfluidics

Large Scale Integration (Massively Parallel and High Throughput Systems)

Other Microfluidic Platforms

Others

Paper Microfluidics

Passive Microfluidics

Nanobiotechnology

Nanoscale Assembly

Nanoscale Fabrication, Patterning, and Integration

Surface Modification

Sensors & Actuators, and Detection Technologies

Biosensors

Chemical & Electrochemical Sensors

Micropumps, Valves, and Dispensers

Optical Detection

Visualization & Imaging Technologies

Separations, Reactions, and Other MicroTAS Applications

Chemical & Particle Synthesis

Chromatographic Separations

Electrophoretic Separations

Environmental Analysis

Others

Particle Separations

LATE NEWS POSTER PRESENTATIONS