



Microfluidics for Biomedical Innovation 2026 Shenzhen Extracellular Vesicles 2026 Shenzhen

Dates: Friday, 23 January 2026 - Saturday, 24 January 2026

Location: Shenzhen, China

Conference Day 1 – Friday, 23 January 2026 – 5th Floor Ballroom

08:00 Conference Registration, Materials Pick-Up, Coffee, Tea and Networking

09:00 Chairperson's Welcome

Welcome and Introduction to the Microfluidics Conference by Conference Senior Chairperson

Tingrui Pan, Yangtze River Chair Professor, University of Science and Technology of China, China

09:10 Chairperson's Welcome

Welcome and Introduction to the Microfluidics Conference by Conference Senior Chairperson

Hsueh-Chia Chang, Bayer Professor of Chemical and Biomolecular Engineering, University of Notre Dame, United States of America; Co-Founder & CTO, Aopia Biosciences

Session Title: Conference Opening Plenary Session

09:20 Plenary Presentation

Next-Generation Microfluidic Biosensing: Integrating LSPR, Synthetic Receptors, and Functionalized 3D-Printed Platforms

Amy Shen, Professor and Provost, Okinawa Institute of Science and Technology Graduate University (OIST), Japan

09:50 Plenary Presentation

Liquid Metal based Microfluidic Wearable Sensors for Biomedical Applications

Chwee Teck Lim, NUSS Chair Professor, National University of Singapore

10:20 Plenary Presentation

Size-Based Quantification of Extracellular Vesicles and Viruses in Untreated Plasma/Urine by Brownian Rotation of Immuno-Janus Particles

Hsueh-Chia Chang, Bayer Professor of Chemical and Biomolecular Engineering, University of Notre Dame, United States of America

10:50 Mid-Morning Coffee and Tea Break and Networking with the Exhibitors

11:20 Plenary Presentation

Extracellular Vesicles (EVs): Biomarkers for Cardiovascular Disease

Dominique PV de Kleijn, Professor Experimental Vascular Surgery, Professor Netherlands Heart Institute, University Medical Center Utrecht, The Netherlands

11:50 Plenary Presentation

MSC Exosomes in Disease Modulation: Immunity as the Common Denominator

Sai Kiang Lim, Research Director, Paracrine Therapeutics, Singapore; Associate Research Professor, National University of Singapore

12:20 Plenary Presentation

Real-time Microfluidic Devices for Healthcare – Innovative Monitoring of Premature Babies in the NICU

Martyn Boutelle, Professor of Biomedical Sensors Engineering, Imperial College London, United Kingdom

12:50 Networking Lunch – Engage with Colleagues and Meet the Sponsors and Exhibitors

Session Title: Innovations in Microfluidics, circa 2026

Session Chairperson: Professor Tingrui Pan, Yangtze River Chair Professor, University of Science and Technology of China

Venue: 5th Floor Ballroom

14:00 Building Microfluidic Organs-on-chip for Translational Biomedical Innovations

Lorena Diéguez, Leader of the Medical Devices Research Group, INL-International Iberian Nanotechnology Laboratory, Portugal

14:30 Keynote Presentation

Microneedle Patch-based Interstitial Fluid Rapid Analysis and Skin Wound pH Monitoring

Xueji Zhang, National Chair Professor, Vice Chairman of Shenzhen University, China - Conference Co-Chair

15:00 Technology Spotlight Presentation

How to Choose Between Maskless and Mask-based Photolithography?

Anatole Heliot, Kloé, France



15:30 Mid Afternoon Coffee and Tea Break and Networking with the Exhibitors

Session Title: Innovations in Extracellular Vesicles Research, circa 2026

Session Chairperson: Professor Hsueh-Chia Chang, Bayer Professor of Chemical and Biomolecular Engineering, University of Notre Dame, United States of America

Venue: 5th Floor Ballroom

16:00 Electrokinetic Separation of Extracellular Vesicles

Levent Yobas, Professor, Department of Electronic and Computer Engineering, Department of Chemical and Biological Engineering, Hong Kong University of Science and Technology, Hong Kong

16:30 Intracellular Calcium Modulation via High Frequency Cell Mechanostimulation for Enhancing Exosome Production

Leslie Yeo, Distinguished Professor, Royal Melbourne Institute of Technology (RMIT), Australia; Chief Editor, Biomicrofluidics

17:00 Technology Spotlight Presentation

EXODUS: Innovative Technique for Automatic Isolation of Extracellular Vesicles and its Diverse Applications

Lulu Zhang, Application Scientist, EXODUS BIO, China



17:30 Technology Spotlight Presentation

Particle Metrix GmbH



18:00 Evening Networking Reception in the Exhibit Hall and Poster Session

19:00 Close of Day 1 of the Conference Programming

Conference Day 2 – Saturday, 24 January 2026 – 6th Floor Ballroom

08:00 Morning Coffee, Tea and Networking in the Exhibit Hall

09:00 Mass Spectrometry Imaging: Technology and Applications

Qian Luo, Professor, Institute of Scientific Instrumentation, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, China

09:30 Biosensors Integrated Cell/Organoid Devices

Chenzhong Li, XQ Deng Presidential Chair Professor, Department of Biomedical Engineering, Chinese University of Hong Kong [Shenzhen], China - Conference Co-Chair

10:00 Technology Spotlight Presentation

NexaDroplet™: A Picoliter-level Microdroplet Dispensing Platform from Prototyping to Production

Rae (Ruishu) Cao, Marketing & Sales Director, NexaLab Team, Singapore



10:30 Mid-Morning Coffee Break and Networking with Exhibitors

11:00 Integrated Microfluidic Multi-organ-on-a-chip Systems with Multimodal Analysis

Liang Zhao, Associate Professor, Beijing University of Technology, China

11:30 Combinational Prodrug Nanotherapy Validated in a Brain Organoid Model of Alzheimer's Disease

Dong-pyo Kim, Professor, Harbin Institute of Technology-Shenzhen, China

12:00 Presentation Details to be Confirmed Shortly

12:30 Networking Lunch -- Engage with Colleagues and Meet the Sponsors and Exhibitors and Posters

14:00 Keynote Presentation

Current Research Status and Application Prospects of Neuron-on-a-Chip

Jie Chen, Founding Dean of the School of Biomedical Engineering at Fudan University, China

14:30 Microfluidic Devices for Bioparticle Separation and Detection

Yong Zhang, Chair Professor & Head, Department of Biomedical Engineering, City University of Hong Kong (CityUHK), Hong Kong

15:00 Intelligent Closed-Loop Platforms for Sensing and Treatment of Status Epilepticus

Fang Yang, Professor, Southeast University, China

15:30 AI-Driven Continuous-Flow Magnetophoretic Chip for Single-Molecule Immunoassay of Alzheimer's Disease

Yun Hui, Associate Researcher, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China

16:00 Late-Afternoon Tea & Coffee Break and Networking with Exhibitors

16:30 Tingrui Pan, Yangtze River Chair Professor, University of Science and Technology of China

Poster Awards Announced by Professor Tingrui Pan, Professor Xueji Zhang and Professor Chenzhong Li

Panel Discussion Chaired by Professor Tingrui Pan, Senior Conference Chairperson

17:30 Close of Conference