



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



18:00 Evening Networking Reception in the Exhibit Hall

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

Fang Yang, Professor, Southeast University, China

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 Networking Lunch -- Engage with Colleagues and Meet the Sponsors and Exhibitors

13:30 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

14:00 Microfluidic Devices for Bioparticle Separation and Detection

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