



## **Microfluidics for Biomedical Innovation 2026 Shenzhen Extracellular Vesicles 2026 Shenzhen**

**Dates:** Friday, 23 January 2026 - Saturday, 24 January 2026  
**Location:** Shenzhen, China

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### **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

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### 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 Bouteille, 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: 5<sup>th</sup> Floor Ballroom

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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: 5<sup>th</sup> 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**

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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 (Ruishi) 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**