

SELECTBIO

SelectBIO Hong Kong February 7-8, 2025 Conference Agenda
ALVA HOTEL BY ROYAL
1 Yuen Hong Street, Shatin, Hong Kong

Full Abstracts of Speaker Presentations on SelectBIO Website
<https://www.selectbioconferences.com/>



Friday, February 7, 2025 – Conference Day 1

- 08:30 Conference Registration, Materials Pick-Up, Coffee and Networking
Yat Heen, Level 2, ALVA HOTEL
- 09:00 Welcome and Introduction to the Conference -- Topics Addressed and Themes Explored at this Conference
Anderson Shum, Vice President of Research, City University of Hong Kong
- 09:15 Plenary Presentation
Ultra-high Sensitivity Diagnostics with Droplet Microfluidic Devices
David Weitz, Mallinckrodt Professor of Physics and Applied Physics, Director of the Materials Research Science and Engineering Center, Harvard University, United States of America

09:45 Plenary Presentation
Microfluidics and Biosensors: Unlocking New Possibilities in Biophysics and Diagnostics

**Amy Shen, Provost, Professor, Micro/Bio/Nanofluidics Unit
Okinawa Institute of Science and Technology (OIST), Japan**

10:15 Coffee, Tea + Light Bites and Networking with Colleagues and Exhibitors

11:00 Plenary Presentation
Moving Cells on Chips for Clinical Applications

Mehmet Toner, Helen Andrus Benedict Professor of Biomedical Engineering, Massachusetts General Hospital (MGH), Harvard Medical School, and Harvard-MIT Division of Health Sciences and Technology, United States of America

11:30 Plenary Presentation
Micro-Surgical Tools for Dissecting Cells and Tissues

Sindy K.Y. Tang, Associate Professor, Department of Mechanical Engineering and by courtesy of Bioengineering and Radiology, Stanford University, United States of America

12:00 Plenary Presentation
Microfluidic Control For Single Filaments and Minimal Biopolymer Networks

Sarah Köster, Professor, University of Göttingen, Germany

12:30 Networking Lunch – Alva House Lunch Buffet

13:25 Session Title: Emerging Themes in Extracellular Vesicles (EV) Research – I

13:30 Plenary Presentation
Microfluidic Innovations in Liquid Biopsy: From Digital EV Profiling to Point-of-Care Diagnostics

Yoon-Young Cho, Professor, Department of Biomedical Engineering; Dean, College of Information and Biotechnology, UNIST (Ulsan National Institute of Science & Technology), Ulsan, Republic of Korea

14:00 Technology Spotlight Presentation
Characterization of Extracellular Vesicles and Other Biological Nanoparticles using Nanoparticle Tracking Analysis (NTA)

Sven Kreutel, CEO, Particle Metrix, Inc., Germany and United States of America



14:30 Development of DNA Aptamers Targeting Colorectal Cancer Cell-derived Small Extracellular Vesicles and their Biomedical Applications

Ki Soo Park, Associate Professor, Konkuk University, Republic of Korea

15:00 Mid-Afternoon Coffee, Tea + Light Bites and Networking with Exhibitors

15:29 Session Title: Innovations in Microfluidics – I

15:30 Plenary Presentation

Transforming Healthcare: Microfluidics for Disease Diagnosis and Monitoring
Chwee Teck Lim, NUS Society Chair Professor, Department of Biomedical Engineering, Institute for Health Innovation & Technology (iHealthtech), Mechanobiology Institute, National University of Singapore

16:00 Technology Spotlight Presentation

Microfluidics and Additive Manufacturing:
Dilase 3D, the (R)evolution
Paul Coudray, CEO, Kloé, France



16:30 Biomedical Innovations in Molecular Diagnosis Powered by Microfluidics

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

17:00 Close of Day 1 of the Conference

Saturday, February 8, 2025 – Conference Day 2

08:00 Morning Coffee, Tea and Networking

08:55 Session Title: Innovations in Extracellular Vesicles (EVs)/Exosomes – II

09:00 Keynote Presentation

Bacterial Extracellular Vesicles in Disease Diagnosis and Treatment

Lei Zheng, Professor, Director of Department of Clinical Laboratory Medicine, Vice President of Nanfang Hospital, Southern Medical University, China

09:30 Technology Spotlight Presentation

EXODUS: Innovative Technique for Automatic Isolation of Exosomes and Its Diverse Applications

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Lulu Zhang, Application Scientist, EXODUS BIO, China

10:00 Extracellular Vesicles for Precision Therapeutic Development

Mei He, Associate Professor, University of Florida, United States of America

10:30 Mid-Morning Coffee, Tea + Light Bites and Networking with Exhibitors

11:00 APLP1 as a Brain-Derived Extracellular Vesicle Biomarker in Advancing Neurodegenerative Disease Diagnostics

Jisook Moon, Associate Professor, CHA University, Republic of Korea

11:30 Keynote Presentation by Conference Co-Chair

Translation of Extracellular Vesicles From Bench to Bedside

Andreas Möller, Professor, Chinese University of Hong Kong

12:00 Lunch and Networking with Colleagues and Exhibitors – Alva House Lunch Buffet

12:59 Session Title: Biomedical Innovations Driven by Microfluidics and EV Research

13:00 Technology Spotlight Presentation

Scaling Up Microfluidic Innovations from Lab to Fab

Yexian Wu, Executive Vice President, HiComp Microtech, China

The logo for HiCOMP, featuring the word "HiCOMP" in a bold, blue, sans-serif font, with "Microfluidics | Lab consumables" in a smaller font below it.

13:30 Multi-Stimulus Perception and Visualization by an Intelligent Liquid Metal-Elastomer Architecture

Hongzhang Wang, Assistant Professor, Tsinghua Shenzhen International Graduate School, China

- 14:00 The Functional and Clinical Significance of Extracellular Vesicles in Hepatocellular Carcinoma
Judy Yam, Professor, The University of Hong Kong
- 14:30 Distance-based Ratio-metric Assay using Thread-based Microfluidics for Sensing Applications
Naresh Kumar Mani, Associate Professor, Centre for Microfluidics, Biomarkers, Photoceutics & Sensors, Manipal Academy of Higher Education, India
- 15:00 Engineering Inhalable Nanomedicine for Respiratory and Neurological Diseases
Aviva Chow, Associate Professor, The University of Hong Kong
- 15:15: Cell Mechanics: From Mechanotransduction to Tissue Morphogenesis and Disease Detection
Yuan Lin, Professor, The University of Hong Kong
- 15:30 Customized Nanodiamond-based Nanodevices
Zhiqin Chu, Professor, The University of Hong Kong
- 15:45 Mid-Afternoon Coffee, Tea + Light Bites and Networking