



**Multi-Track Annual
SelectBIO Conference**

November 17-19, 2025

VOCO Hotel—Laguna Hills, California

SelectBIO Conferences Website:

<https://www.selectbioconferences.com/>

Conference Day 1 – Monday, November 17, 2025

Short Course Starts at 09:00 – Location: Slate Room, VOCO Hotel

Microfluidic Product Development: How to Integrate Design for Manufacture from Benchtop to Commercial Scale



****2-hr Course -- All Registered Conference Attendees are Welcome to Attend this Short Course****

Stefano Begolo, President, ALine, Inc., United States of America

Antonio “Tony” Pineda, Technical Sales Engineer, ALine, Inc., United States of America

- This training course is being taught by the ALine team, including Dr Stefano Begolo, a veteran in the microfluidics, system design and product development space and by Antonio (Tony) Pineda
- The goal of this training course is to present an actionable set of tools for translating microfluidic design into products.

Short Course Starts at 11:00 – Location: Slate Room, VOCO Hotel

Microfluidics Manufacturing: From Prototyping to Scalable Production



****2-hr Course -- All Registered Conference Attendees are Welcome to Attend this Short Course****

Jing Chen, Founder & CEO, HiComp Microtech, United States of America

- Key materials used in microfluidics: polymers, silicon, and glass
- Prototyping techniques such as 3D printing, CNC micromachining, laser cutting, soft lithography (PDMS), and MEMS-based fabrication—along with their capabilities, limitations, and typical applications
- Challenges in scaling up, including design adaptation, material compatibility, and process scalability
- Production-ready solutions, including micro-injection molding, various chip bonding strategies, PDMS scale-up methods, and considerations for manufacturing microfluidic MEMS devices as distinct from conventional MEMS used in sensors and actuators

Conference Registration Begins at 13:00

Location: Conference Venue Entrance, VOCO Hotel

- Materials Pick-Up
- Coffee and Networking in the Exhibit Hall

Conference Plenary Session – Location: Plenary Ballroom

13:45 Conference Welcome and Introduction by Conference Co-Chairpersons:

- Professor Dino Di Carlo, Armond and Elena Hairapetian Chair in Engineering and Medicine, Professor and Chair of Bioengineering, University of California-Los Angeles
- Dr. Stefano Begolo, President, ALine, Inc.

****Plenary Session Provides a Periscope of the Topics Addressed at this Conference****

14:00 **Integration of Microfluidic Sample Handling and Detection for Point of Care Diagnostics**

Brian Cunningham, Professor and Intel Alumni Endowed Chair, University of Illinois at Urbana-Champaign, United States of America

14:30 **Negotiating the Challenges of Microfluidic Product Development**

H. John Crabtree, President and Founder, HJC Consulting Inc., Canada



15:00 **Digital Flow Cytometry (dFC)**

Daniel Chiu, A. Bruce Montgomery Professor of Chemistry, University of Washington, United States of America

15:30 **Mid-Afternoon Coffee Break and Networking in the Exhibit Hall**

16:00 **The Evolving Microfluidics, Lab-on-a-Chip and MPS Fields**

Claudia Gärtner, CEO, microfluidic ChipShop GmbH, Germany



16:30 **Integrated Electro-Optofluidic Devices for Ultra-sensitive Diagnostics and Biomedical Research**

Holger Schmidt, Narinder Kapany Professor of Electrical Engineering, University of California-Santa Cruz, United States of America

17:00 **3D-Printed Microfluidics: Principles, Options, and Recent Advances**

Gregory Nordin, Professor, Brigham Young University, United States of America

17:30 **Sex Differences in Extracellular Vesicle Plasma Proteins in Cardiovascular Patients**

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

18:00 **Microfluidics and Liquid Biopsies: From Bench-to-Bedside**

Steve Soper, Foundation Distinguished Professor, Director, Center of BioModular Multi-Scale System for Precision Medicine, The University of Kansas, United States of America

18:30 **Networking Reception and Buffet Dinner in Exhibit Hall**

Beer, Wine and Dinner Reception – Meet, Engage with Exhibitors

20:00 Close of Day 1 of the Main Conference Programming

Short Course Starts at 20:45 – Location: Slate Room, VOCO Hotel

Evening Workshop: Microfluidics at-a-Glance – Technology, Applications & Hands-on-Experiences

Claudia Gärtner, CEO, microfluidic ChipShop GmbH, Germany



****This Workshop is Open to All Conference Registered Delegates****

- Introduction into microfluidics
- Physical principles
- The reagent choice
- The material choice
- Development strategies
- Case studies: Applications and products
- The way towards commercialization
- Lessons learned
- Research trends
- Conclusions

22:30 **Close of Day 1 of the Conference**

Conference Day 2 – Tuesday, November 18, 2025

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

Venue: Ballroom A – VOCO Hotel

09:00 Welcome by Conference Senior Chairperson and Introduction to the Emerging Themes in the Broader Lab-on-a-Chip, Microfluidics Space:

****Wearables****

****Digital Microfluidics (DMF)****

Dino Di Carlo, Armond and Elena Hairapetian Chair in Engineering and Medicine, Professor and Chair of Bioengineering, University of California-Los Angeles, United States of America

09:15 Experimental Study of Trapping and Stretching of Single DNA Molecules on a Channel Wall

Juan G. Santiago, Charles Lee Powell Foundation Professor of Mechanical Engineering, Stanford University, United States of America

09:45 Body-Interfaced Biosensors

Wei Gao, Professor, California Institute of Technology, United States of America

10:15 Digital Microfluidics and Beyond for NGS Sample Prep

Mais Jebrail, CTO of Microfluidics, INTEGRA Biosciences, United States of America

10:45 Mid-Morning Coffee Break and Networking in the Exhibit Hall

11:30 Technology Spotlight Presentation
From Idea to Device: Rethinking Microfluidics with Design-Driven Prototyping and Novel Materials



Victor Morel Cahoreau, Head of Sales, Eden Microfluidics, France

12:00 Technology Spotlight Presentation
Make PDMS Scalable Again — Season Two: From Prototype Interfaces to Hybrid Cartridges



Jing Chen, Founder & CEO, Hicomp Microtech, United States of America

12:30 Networking Lunch in Exhibit Hall -- Engage with Colleagues and Network with Exhibitors

14:00 Democratization of Digital Microfluidics via Cloud-based Design and Manufacturing

Chang-Jin "CJ" Kim, Distinguished Professor, University of California-Los Angeles, United States of America

14:30 Technology Spotlight Presentation Next Generations of Organoid-on-Chip Technologies: Challenges on a Material Perspective for Sensor Integration and Commercialization



Lindsay Pack Moll, CEO, InnovaFlex Foundry, United States of America
Fabrice Navarro Y Garcia, Head of Service, CEA-Leti, France

15:00 Technology Spotlight Presentation From Design to Realization: New, Streamlined Prototyping Workflow for the Development of Microfluidic Platforms



Maximilian Pitzek, Deputy Head of Project Management, STRATEC Consumables GmbH, Austria

15:30 Mid-Afternoon Coffee Break and Networking in the Exhibit Hall

16:00 Microfluidic Platforms for Micro- and Nanoplastic Detection and Cellular Response Studies

Yang Lin, Assistant Professor, University of Rhode Island, United States of America

16:30 Repurposing Commercial Dental Resins for Low-Cost, 3D-Printed Microfluidic Valves and Pumps

Roman Voronov, Associate Professor, Otto H. York Department of Chemical and Materials Engineering, New Jersey Institute of Technology Newark College of Engineering, United States of America

17:00 Technology Spotlight Presentation On-Board Flow Generation and Control for Microfluidic Applications: Strategies and Examples



Stefano Begolo, President, ALine, Inc., United States of America

17:30 Continuous Physiological Monitoring with Soft Electronics

Michelle Khine, Professor of Biomedical Engineering, University of California-Irvine, United States of America

18:00 Panel Discussion Focusing on Opportunities in Microfluidics

Chaired by Dr. Stefano Begolo, President, ALine, Inc., United States of America

18:30 Networking Reception and Dinner in Exhibit Hall

Beer, Wine and Dinner Reception -- Meet Exhibitors and Engage

20:30 Close of Day 2 of the Main Conference Programming

Short Course Starts at 20:45 – Location: Slate Room, VOCO Hotel

Evening Workshop: Eden Microfluidics Design to Prototyping of Microfluidics Chips -- On-site Demo

Victor Morel Cahoreau, Head of Sales, Eden Microfluidics, France



****This Workshop is Open to All Conference Registered Delegates****

****Design It, Make It, Test It: A Hands-On Microfluidics Prototyping Experience with FLUI'DEVICE and Flexdym****

22:00 Close of Day 2 of the Conference

Conference Day 3 – Wednesday, November 19, 2025

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

Venue: Ballroom A – VOCO Hotel

08:00 **Technology Spotlight Presentation**

How to Choose Between Maskless and Mask-based Photolithography?



Anatole Heliot, Kloé, France

08:20 **Ultrasensitive RNA Quantification Using a High-throughput Droplet Digital CRISPR-Cas13a Assay**

Ding Tang, Researcher in Bioengineering, University of Pennsylvania, United States of America

****Professor David Issadore Laboratory****

08:40 **Development of a Modeling Environment and its Application to Blood-Brain Barrier (BBB) Investigation**

Magdalena Urban, Researcher, University of Strathclyde, United Kingdom

Venue: Ballroom A – VOCO Hotel

09:00 **Workshop: Microfluidics and Nanofluidics for *In Vitro* Diagnostics**

- Market size and needs for in vitro diagnostic testing
- The do's and don'ts of bringing new testing platforms to the market (the fall of Theranos)
- Analytical and clinical figures-of-merit for in vitro diagnostic tests
- Requirements for FDA approval
- The use of liquid biopsy markers and microfluidics for in vitro diagnostic testing
- Requirements of microfluidic and even nanofluidic systems for diagnostic testing
- Integrated microfluidic systems for carrying out multi-step assays for diagnostics

Steve Soper, Foundation Distinguished Professor, Director, Center of BioModular Multi-Scale System for Precision Medicine, The University of Kansas, United States of America

10:00 Redox Amplification Revisited

Marc Madou, Distinguished Professor, Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico; Distinguished Professor Emeritus, Department of Mechanical and Aerospace Engineering, UC-Irvine, United States of America
[Presented by Ehsan Shamloo, University of California-Irvine]

10:30 Mid-Morning Coffee Break and Networking in the Exhibit Hall

11:30 Where the Puck is Going: Microfluidic Devices as Non-Animal Models of Human Health and Disease

James McGrath, Professor of Biomedical Engineering, University of Rochester; Director, SiObex Inc., United States of America

12:00 A Modular Microfluidic Ecosystem for Flow and Sensing in the μ SiM Tissue-Chip Platform

Vinay Abhyankar, Associate Professor of Biomedical Engineering, Rochester Institute of Technology, United States of America

12:30 Networking Lunch in Exhibit Hall -- Engage with Colleagues and Network with Exhibitors

Session Title: Microfluidics Association Workshop and Case Studies

Venue: Ballroom A and Slate Room, VOCO Hotel

Starts at 13:30

13:30 Standardized Approaches to Facilitate the Development and Production of Microfluidic Products

Welcome and Housekeeping

H. John Crabtree, Board Member, Microfluidics Association, and President, HJC Consulting, Inc., Canada

This workshop chaired by Dr. John Crabtree brings together government and industry participants from the Microfluidics Association to provide guidance and frameworks for the production of microfluidics products

13:35 Standardization in Microfluidics Consulting

H. John Crabtree, Board Member, Microfluidics Association, and President, HJC Consulting, Inc., Canada

13:45 Microfluidics & Organ-on-Chip - Standardization Meets Customization

Claudia Gärtner, CEO, microfluidic ChipShop GmbH, Germany

14:05 Accelerating Microfluidic Development Using Standard Designs and Components. Examples and Best Practices

Stefano Begolo, President, ALine, Inc., United States of America

14:25 Microfluidic Flow Automation-From Fundamental Research to Applied Solutions and Markets

France Hamber, CEO, Fluigent S.A., France

14:45 What Industry Will Use: A Buyer's Checklist for "Standard" OoC Platforms

Jing Chen, CEO, HiComp Microtech, United States of America

15:05 Hands-On Session in the Demo Room and Networking

15:30 Mid-Afternoon Coffee Break and Networking in the Exhibit Hall

16:00 The Deceptive Simplicity of the Flow Cell: Toward Modular Interfaces and Metrology Standards Across Flow, Surface, and Light

Alex Nemiroski, CEO, BioNexus Labs, United States of America

16:20 Expanding Standardization activities for MPS or OoC - Collaboration between ISO/TC 48 and ISO TC 276

Hiroki Nakae, Director General, Japan Bio-Measurement and Analysis Consortium (JMAC), Japan

16:40 Panel Discussion Moderated by Dr. John Crabtree

17:20 Hands-On Session in the Demo Room + Networking

18:00 Close of Conference

Innovations in Extracellular Vesicles Research 2025: Technologies, Tools, Demos & Applications

Tuesday – November 18, 2025

Ballroom “B” – VOCO Hotel, Laguna Hills, California

08:00 Coffee, Tea and Hot Breakfast Served in the Exhibit Hall

09:00 Keynote Presentation

Label-Free Detection and Identification of Single Protein Molecules Harvested from Extracellular Vesicles

Steve Soper, Foundation Distinguished Professor, Director, Center of BioModular Multi-Scale System for Precision Medicine, The University of Kansas, United States of America

09:45 Technology Spotlight Presentation

ZetaView Evolution-Your EV Solution: Qualification of Extracellular Vesicle Preparations

Ross Jacobson, Technical Sales & Service Lead
Western US, Particle Metrix Inc., United States of America



10:15 Mid-Morning Coffee Break and Networking in the Exhibit Hall

Particle Metrix will Conduct Instrument Demo in the Slate Room

11:00 Extracellular Vesicles as Biomarkers: A New Frontier in Medical Diagnostics

Banishree Saha, Associate Director, Early Clinical Development, Takeda Pharmaceuticals, United States of America

11:30 Technology Spotlight Presentation

EXODUS High Efficiency Exosome Isolation System



Katherine Tuche, BD & Product Application Specialist,
EXODUS Bio, United States of America

12:00 The Transplant EV-Immunology Frontier

Billanna Hwang, University of Washington-Seattle, United States of America

12:30 Networking Lunch in the Exhibit Hall -- Network with Colleagues and Engage with the Exhibitors

Particle Metrix will Conduct Instrument Demo in the Slate Room

14:30 Reconfigurable Extracellular Vesicles for In Utero Therapy: A New Frontier in Prenatal Regenerative Medicine

Bruna Corradetti, Assistant Professor, Center for Precision Environmental Health, Department of Medicine, Baylor College of Medicine, United States of America

15:00 Practical Application of Extracellular Vesicles Within the World of Personal Care: Using Exosomes to Create a New Generation of Skin and Hair Care



Shawn Dudley, Executive Director, Shantel Medical Supply Corp., United States of America

15:30 Mid-Afternoon Coffee Break and Networking in the Exhibit Hall

EXODUS BIO will conduct Instrument Demo in the Slate Room

16:00 Technology Spotlight Presentation

Demeter EVPrep: Where Microchips Meet Biotech to Deliver Automated, Reproducible EV Isolation



Caitlin McAtee, Field Application Scientist, EXOKERYX, United States of America

16:30 Stressed Exosomes (SEXOSOMES) in Glioblastoma Therapeutic Resistance

Michael Graner, Professor, Department of Neurosurgery, University of Colorado, Anschutz Medical Campus, United States of America -- Conference Track Chairperson

17:00 Membrane Lipids Within Extracellular Vesicles Activate Cellular Responses

Antonio De Maio, Professor, University of California-San Diego, United States of America

18:30 Networking Reception with Beer, Wine and Dinner in the Exhibit Hall -- Network and Engage with Colleagues and Exhibitors

Innovations in Biofabrication and Biomanufacturing 2025**Wednesday – November 19, 2025****Ballroom “B” – VOCO Hotel, Laguna Hills, California****08:00 Coffee, Tea and Hot Breakfast Served in the Exhibit Hall****09:00 Chairperson Welcome****Chairperson's Introduction and Welcome and Introduction to the Scope and Topics Addressed******Introduction to Biofabrication and Manufacturing****

John Slater, Associate Professor, University of Delaware, United States of America—Conference Track Chairperson

09:30 Engineering Microbes to Create and Harness Non-Standard Amino Acids

Aditya Kunjapur, Thomas Willing Early Career Associate Professor of Chemical & Biomolecular Engineering, University of Delaware, United States of America

10:00 Keynote Presentation**Biomaterials Design for Biofabrication and Biomanufacturing**

Kristopher Kilian, Professor, University of New South Wales, Sydney Australia

10:30 Mid-Morning Coffee Break and Networking in the Exhibit Hall**11:00 Developing an Anaerobic Cell-Free Protein Expression Platform for Discovery of Novel Enzyme Function**

Carolyn Mills, Assistant Professor, Department of Bioengineering, University of California-Santa Barbara, United States of America

11:30 Engineering Probiotic Yeast as a Live Biotherapeutic Platform for Vitamin Delivery to the Gut

Genan Wang, Researcher, North Carolina State University, United States of America

12:00 Stepping into the Next Dimension of Electrospun Nanofiber Design for Tissue Repair and Regeneration

Johnson V. John, Assistant Professor, Terasaki Institute for Biomedical Innovation, United States of America

12:30 Networking Lunch in the Exhibit Hall



Upcoming SelectBIO Conferences in 2026

**For a Complete Expanding List,
Please Visit SelectBIO Conferences Website:**

<https://www.selectbioconferences.com/>

Microfluidics for Biomedical Innovation 2026 Shenzhen

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

Location: Shenzhen, China

Extracellular Vesicles 2026 Shenzhen

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

Location: Shenzhen, China

Extracellular Vesicles 2026 USA

Dates: Sunday, March 15, 2026 – Monday, March 16, 2026

Location: Portland, Oregon, US

3D-BioPrinting 2026 – Hands-On Workshop

Dates: March 2026

Location: Utah, US

Point-of-Care, Rapid Diagnostics & Lateral Flow Tests Asia 2026

Dates: Monday, April 27, 2026 - Tuesday, April 28, 2026

Location: Kuala Lumpur, Malaysia

Lipid Nanoparticles (LNPs) 2026

Dates: May 2026

Location: Cambridge, UK

Lab-on-a-Chip and Microfluidics Europe 2026

Dates: May 2026

Location: Montpellier, France

Flow Chemistry Asia 2026

Dates: Saturday June 6, 2026 - Sunday June 7, 2026

Location: Shenzhen, China

Organoids, MPS and Organs-on-Chips Asia 2026

Dates: Tuesday, October 13, 2026 – Wednesday, October 14, 2026

Location: Tokyo-Narita, Japan

Extracellular Vesicles: Technologies, Biomarker Cargo & Therapeutics Asia 2026

Dates: Thursday, December 3, 2026 – Friday, December 4, 2026

Location: Kuala Lumpur, Malaysia