



# LABORATORY AUTOMATION

## Virtual Event Series

March 20, 2024

| Date   | Time             | Track   | Presentation Title  | Speaker   |
|--------|------------------|---|---|---|
| 20-Mar | 06:00 - 07:00 AM | Drive Lab Automation with Cutting-edge Tools            | How to Prepare for Lab Automation? with Live Q&A  | Jesse Mayer, PhD<br>Field Applications Scientist, Automata  |
| 20-Mar | 07:30 - 08:30 AM | Automation and Emerging Methods                         | Panel Presentation: Advanced Predictive Modeling in Cell Line Development with Live Q&A   | Ali Safari, Dr.-Ing<br>Data Scientist for Cell line and Media Testing Solutions, Sartorius Stedim Cellca GmbH<br>Monika Zauner, Dr<br>Scientist in Product Development, Sartorius Stedim Cellca GmbH      |
| 20-Mar | 09:00 - 10:00 AM | Microfluidic and Microscale Technologies for Automation | Keynote Presentation: Applying Nanovial Technology to Discover Rare T Cell Receptors with Live Q&A  | Dino Di Carlo, Ph.D.<br>Professor and Chair, Department of Bioengineering<br>University of California, Los Angeles  |
| 20-Mar | 10:00 - 11:00 AM |   | Poster Discussion   | Chat Live with Poster Authors!  |
| 20-Mar | 10:30 - 11:30 AM | Automation and Emerging Methods                         | Keynote Presentation: How to Grow (Almost) Anything: A Robotics-Enabled Learning Model for Global Synthetic Biology Education with Live Q&A   | David Sun Kong, PhD<br>Synthetic Biologist, Director, MIT's Media Lab, Community Biotechnology Initiative   |
| 20-Mar | 12:00 - 01:00 PM | Automation and Emerging Methods                         | Workflow Execution Interface (WEI): Streamlining Autonomous Scientific Discovery through Open-Source Robotics and Instrumentation Integration | Casey Stone<br>B.S. in Biology from Indiana University, M.S. in Computer Science from the University of Chicago, Computational Scientist, Data Science and Learning Division, Argonne National Laboratory |
| 20-Mar | 01:00 - 02:00 PM | Microfluidic and Microscale Technologies for Automation | Enhancing Laboratory Efficiency: Automating Plasmid, Protein, and Cell Processing with Live Q&A   | Rouba Najjar, MBA<br>Head of US Marketing and Business Development, Products Division   |

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| 20-Mar | On Demand | Automation and Emerging Methods                         | High-throughput Analysis of Pathogens using Desorption Electrospray Ionization and 2D MS/MS    | Dalton T. Snyder, PhD<br>Research Scientist, Teledyne FLIR                          |
| 20-Mar | On Demand | Drive Lab Automation with Cutting-edge Tools            | Method Validation in a LIMS and CDS Centric Lab Environment                                    | Jürgen Voorgang<br>Product Manager VALIDAT, Head of Method Validation, GUS LAB GmbH |
| 20-Mar | On Demand | Drive Lab Automation with Cutting-edge Tools            | Nailing LIMS Data Migration: The Linchpin of Laboratory Modernization                          | Montserrat Valdes, MSc<br>Senior Scientist, CloudLIMS                               |
| 20-Mar | On Demand | Drive Lab Automation with Cutting-edge Tools            | The Importance of Validating LIMS and Laboratory Systems                                       | Bob McDowall, PhD<br>Director, R D McDowall Limited                                 |
| 20-Mar | On Demand | Microfluidic and Microscale Technologies for Automation | Utilizing Digital Microfluidics to Miniaturize and Automate Arrayed CRISPR Screening Workflows | Hugo Sinha, MSc<br>Co-founder, DropGenie  |