



| Date  | Time             | Track                     | Presentation Title  | Speaker   |
|-------|------------------|---------------------------|---|---|
| 2-Nov | 06:00 - 07:00 AM | CRISPR in Disease Therapy | From Bench to Bedside: Targeted Gene Editing  | Jennifer Bennett, PhD<br>Product Manager, MilliporeSigma  |
| 2-Nov | 07:30 - 08:30 AM | CRISPR in Diagnostics     | Keynote Presentation: Engineered LwaCas13a with Enhanced Collateral Activity for Nucleic Acid Detection                           | Xue Sherry Gao, PhD<br>Ted N. Law Assistant Professor, Department of Chemical and Biomolecular Engineering, Rice University                                     |
| 2-Nov | 09:00 - 10:00 AM | CRISPR in Diagnostics     | Keynote Presentation: CRISPR-Powered Multiplexed Biosensor for Point-of-Care Management of Infectious Diseases with Live Q&A      | Can Dincer, PhD<br>Junior Research Group Leader, University of Freiburg, Department of Microsystems Engineering-IMTEK   |
| 2-Nov | 10:30 - 11:30 AM | CRISPR Biology            | Panel Presentation: New Molecular Technologies for Genome Editing and Cell Control  | Omar Abudayyeh, PhD<br>Fellow, McGovern Institute for Brain Research at MIT<br>Jonathan Gootenberg, PhD<br>Fellow, McGovern Institute for Brain Research at MIT |
| 2-Nov | 12:00 - 01:00 PM | CRISPR Biology            | Innovative Tools for Efficient CRISPR-Cas Genome Engineering  | Gavin Kurgan, PhD<br>Bioinformatics Applications Manager, Integrated DNA Technologies   |
| 2-Nov | 06:00 - 06:00 AM | CRISPR in Diagnostics     | A CRISPR/Cas12a-Assisted in Vitro Diagnostic Tool for Identification and Quantification of Single CpG Methylation Sites           | Nienke van Dongen, MSc<br>Postdoctoral Research, BIOS Lab on a chip Group, University of Twente   |
| 2-Nov | 06:00 - 06:00 AM |                           | A Lab-on-a-Chip for the Concurrent Electrochemical Detection of SARS-CoV-2 Nucleic Acids and Anti-SARS-CoV-2 Antibodies in Saliva | Devora Najjar, PhD<br>Research Assistant, MIT Media Lab (Under Prof. Joe Paradiso) and (Prof. Jim Collins/Wyss Institute)                                       |
| 2-Nov | 06:00 - 06:00 AM | CRISPR Biology            | CRISPR Base Editor and Prime Editor Toolbox and Applications  | Prof. Cihan Taştan, PhD<br>Founder and Managing Director, hiDNA   |
| 2-Nov | 06:00 - 06:00 AM | CRISPR in Diagnostics     | CRISPR-based Microfluidic Biosensing Systems for Molecular Diagnostics  | Changchun Liu, PhD<br>Associate Professor, Department of Biomedical Engineering, University of Connecticut Health Center  |

|       |                  |                           |   |  |
|-------|------------------|---------------------------|---|--|
| 2-Nov | 06:00 - 06:00 AM | CRISPR in Diagnostics     | CRISPR/Cas-Enabled Paper Microfluidics Device for Rapid Diagnosis   | Zhugen Yang, PhD<br>Senior Lecturer in Sensor Technology, School of Water, Energy and Environment, Cranfield University, UK                            |
| 2-Nov | 06:00 - 06:00 AM | CRISPR in Diagnostics     | Detecting Viruses with CRISPR   | Cameron Myhrvold, PhD<br>Assistant Professor of Molecular Biology, Princeton University  |
| 2-Nov | 06:00 - 06:00 AM |                           | Dynamics and Mechanisms of CRISPR-Cas9 Through the Lens of Computational Methods  | Giulia Palermo, PhD<br>Computational Biophysicist, Assistant Professor; University of California Riverside, Department of Bioengineering and Chemistry |
| 2-Nov | 06:00 - 06:00 AM | CRISPR in Disease Therapy | Functional Genomic Interrogation of Tumor Evolution   | Kris C. Wood, PhD<br>Associate Professor, Department of Pharmacology and Cancer Biology, Duke University   |
| 2-Nov | 06:00 - 06:00 AM | CRISPR in Diagnostics     | Minimally Instrumented SHERLOCK (miSHERLOCK) for CRISPR-Based Point-of-Care Diagnosis of SARS-CoV-2 and Emerging Variants | Helena de Puig, PhD<br>Postdoctoral Fellow in James Collin's Laboratory, Wyss Institute for Biologically Inspired Engineering, Harvard University      |
| 2-Nov | 06:00 - 06:00 AM | CRISPR in Disease Therapy | Precise Therapeutic Genome Editing with Engineered, PAM Flexible Orthogonal CRISPR Proteins                               | Debojyoti Chakraborty, PhD<br>Principal Scientist, EMBO Young Investigator, CSIR-Institute of Genomics and Integrative Biology                         |