

CRISPR

SEPTEMBER 30th

2020

| Date | Time | Track | Presentation Title | Speaker |
|--------|---------------------------|--|--|--|
| 30-Sep | 06:00 - 07:00 AM | CRISPR Applications in Biomedicine and Agriculture | Enhancing efficiency and specificity with improved CRISPR components and a new CRISPR analysis pipeline | Ashley Jacobi Sr. Staff Scientist |
| 30-Sep | 07:30 - 08:30 AM | CRISPR Applications in Biomedicine and Agriculture | Keynote Presentation: Functionalizing Genome Editing Techniques on a Broad Range of Cellular Targets | Shondra Miller, PhD/Director Assistant Member, Center for Advanced Genome Engineering (CAGE), St. Jude Children's Research Hospital, Department of Cell and Molecular Biology |
| 30-Sep | 09:00 - 10:00 AM | CRISPR Applications in Biomedicine and Agriculture | Massively parallel microbial genome engineering using the Onyx™ Platform | Nandini Krishnamurthy, PhD VP Applications Development, Inscripta |
| 30-Sep | 10:30 - 11:30 AM | CRISPR Applications in Biomedicine and Agriculture | Straightforward CRISPR knockout: Leveraging pre-designed synthetic sgRNAs for highly functional and specific gene knockout | James Goldmeyer, PhD Product Manager at Horizon Discovery |
| 30-Sep | 12:00 - 01:00 PM | CRISPR Applications in Biomedicine and Agriculture | Efficient Generation of Gene-edited Mouse Models and Cell Lines Using Synthetic sgRNA | Gurpreet Balrey, PhD Head of Business for EMEA, Merck KGaA Peter Romanienko, PhD Managing Director of the Genome Editing Core Facility; Rutgers Cancer Institute of New Jersey |
| 30-Sep | 01:30 - 02:30 PM | Development and Classification of CRISPR systems | Harnessing novel CRISPR systems for genome engineering | Omar Abudayyeh, PhD Fellow, McGovern Institute for Brain Research at MIT Jonathan Gootenberg, PhD Fellow, McGovern Institute for Brain Research at MIT |
| 30-Sep | 12:00 - 12:45 AM | CRISPR Applications in Biomedicine and Agriculture | An Automated Integrated Multiple Assay Platform utilizing CRISPR-based Transistors for CRISPR Quality Control Applications | Kiana Aran, PhD Co-Founder and CSO, Cardea Bio |

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| 30-Sep | 12:00 - 12:45 AM | CRISPR Applications in Biomedicine and Agriculture | Applying targeted long-read sequencing to assess an expanded repeat in C9orf72 | Marka van Blitterswijk, MD, PhD Assistant Professor of Neuroscience, Mayo Clinic |
| 30-Sep | 12:00 - 12:45 AM | CRISPR Applications in Biomedicine and Agriculture | CRISPR/Cas9 as a tool to model and study cancer - insights and lessons learned | Grace R. Anderson, PhD Scientist, Octant |
| 30-Sep | 12:00 - 12:45 AM | CRISPR for Addressing COVID-19 Pandemic | Elucidation of remdesivir cytotoxicity pathways through genome-wide CRISPR-Cas9 screening and transcriptomics | Minja Velimirovic, MSc, PhD Candidate Laboratory of Dr. Richard Sherwood Division of Genetics, Brigham and Women's Hospital and Harvard Medical School |
| 30-Sep | 12:00 - 12:45 AM | CRISPR Applications in Biomedicine and Agriculture | In vivo delivery of Cas9 ribonucleoprotein and donor DNA with gold nanoparticles | Niren Murthy Professor of Bioengineering, University of California at Berkeley |
| 30-Sep | 12:00 - 12:45 AM | CRISPR Applications in Biomedicine and Agriculture | Long-read sequencing reveals unforeseen CRISPR-Cas9 activity | Adam Ameer Associate Professor and Senior Bioinformatician, SciLifeLab, Uppsala University, Sweden |
| 30-Sep | 12:00 - 12:45 AM | CRISPR Applications in Biomedicine and Agriculture | Measuring Outcomes of CRISPR Experiments & Leveraging Cas9 for Targeted Sequencing | Jonas Korlach, PhD Chief Scientific Officer, Pacific Biosciences |