

| All times EDT | Sunday 8/22 | Monday 8/23 | Tuesday 8/24 | Wednesday 8/25 | Thursday 8/26 |
|------------------------------|--|---|---|--|---|
| 8:00-10:00 AM | N/A | 930-1025: Breakfast of Champions | 930-1030: Business/Future Programming | 930-1025: Breakfast of Champions: Inscripta | 930-1025: Breakfast of Champions |
| 10:30 AM-12:30 PM, Virtual 1 | Advances in Chromatographic Separations for mAbs | Non-Chromatography Based Separation of Biomolecules: mAbs | Case Studies in Tech Transfer, Scaleup, & Integrated Process Design (Keynote) | Advances in Process Analytical Technologies for Measurement & Control | Downstream Processing of Novel Antibody Structures and Other Modalities |
| | Advances in Protein Engineering 1 | Microbial Metabolic Engineering: Bacterial Hosts | New Biomolecular Tools for Microbial Metabolic Engineering | Process Development and Reactor Engineering | Emerging Biophysical & Analytical Characterization Technologies (Keynote) |
| | Novel approaches to diagnose and study disease | Advances in Protein Engineering 2 (Keynote) | Protein Structure & Function | Challenges in Developing Novel Modalities | Cell and Gene Therapy: T Cell Focus (Keynote) |
| | N/A | N/A | New Technologies in Cell & Microbiome Engineering and Stem Cell Therapy | Big Data in Discovery & Development of Biopharmaceuticals (Keynote) | N/A |
| 12:30-1:15 PM | N/A | Lunch and Learn: Cytiva | Lunch and Learn: Bio Rad | Lunch and Learn: 3M | Lunch and Learn: Thermo |
| 1:20-2:00 PM | Van Lanen Service Award; Young Investigator Award Talk | Marvin J. Johnson Award Talk | Young Professionals Award; Alan S. Michaels Award Talk | D&I workshop | N/A |
| 2:00-4:00 PM, Virtual 2 | Advances in Chromatographic Separations beyond mAbs 1 | Non-Chromatography Based Separation of Biomolecules | Membrane-Based Downstream Bioprocessing | Downstream Processing of Non-Antibody Modalities; session A | Cell and Gene Therapy: AAV Focus |
| | Enzyme Engineering & Biocatalysis | Microbial Metabolic Engineering: Eukaryotic Hosts | High-Throughput Screening & Automation | Synthetic Biology & Genome Engineering | Implementation: It's Happening! (Keynote) |
| | Unique Metamaterials for Imaging and Diagnostics Applications | New Technologies for the Delivery & Targeting of Therapeutics (Keynote) | Advances in Process Development & Manufacturing of Biologic Drug Products | Biotechnology & Bioengineering Awards: Wang: Benjamin Woolston and Gaden: Andre Palmer | Formulation Strategies & Novel Routes of Administration |
| | N/A | N/A | COVID Vaccines - From Discovery to the Fastest Vaccine Development in History (Keynote) | N/A | N/A |
| 4:00-4:30 PM | N/A | N/A | N/A | N/A | ESBES competition networking |
| 4:30-6:30 PM, Virtual 3 | Advances in Chromatographic Separations beyond mAbs 2 | Membrane-Based Downstream Bioprocessing | In Silico & Mechanistic Modeling of Downstream Bioseparations | Downstream Processing of Non-Antibody Modalities | Cell and Gene Therapy Session IV: Lentiviral Vector Focus |
| | Systems Biology & Omics-Tools & Applications | Engineering Microbial Communities & Non-Model Systems (Keynote) | Advances in Cell Culture Media and Novel Modalities (Keynote) | Advances in Integrated Unit Operations Automation, Control and PAT | Integrated and Continuous Upstream and Downstream Processing (Keynote) |
| | Protein Engineering Application in Therapeutics, Diagnostics & Sensors | Biosensors & Probes for Medical Diagnostics | Protein Developability, Physical and Chemical Stability | Cell and Gene Therapy: Development & Manufacturing of Cell Therapy Products (Keynote) | Inter-Molecular and Protein Interactions |
| | N/A | N/A | COVID Therapeutics - From Discovery to Super-Accelerated CMC Development | N/A | |
| 6:30-7:00 PM | N/A | N/A | N/A | N/A | N/A |
| 7:00-9:00 PM, Virtual 4 | David Perلمان Award Talk BIOT Reception | BIOT Tank(7-8) | In Silico & Mechanistic Modeling of Downstream Bioseparations | Posters | Student Networking (7-8:30) |
| | | | Protein Aggregation & Immunogenicity | | |
| | | | COVID-19 Diagnostics & Detection Technologies, Challenges & the Scale-Up of Testing | | |
| | | | Synthetic Biology & Genome Engineering | | |
| | Big Data | Biomedical | omolecular and Biophysical Process | Cell and Gene Therapy | COVID |
| | Downstream Processing | Integrated and Continuous Processing | Protein Engineering | Upstream Processing | |
| | Award Talks | Other events | | | |