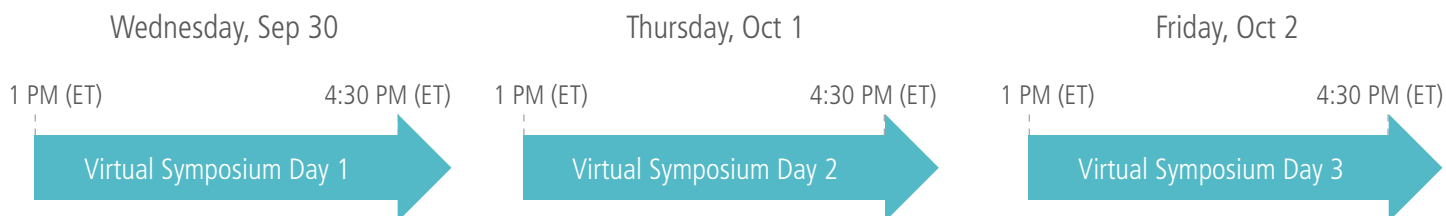




2020 PLANOVA™ US VIRTUAL SYMPOSIUM

SEPTEMBER 30 -
OCTOBER 2, 2020

Program at a Glance



The agenda will be finalized a few weeks prior to the event.

Join us!

Register to attend

2020 Planova™ US Virtual Symposium
<https://2020planova.eventbrite.com>

[Click here to Register](#)

For more information, please contact:

Ms. Lena Liu

Mr. Moyo Akinsete

Ms. Anna Iguchi

WS2020@ak-bio.com



2020 PLANOVA™ US VIRTUAL SYMPOSIUM

September 8, 2020

Dear Valued Customers,

We are pleased to invite you to join the upcoming Planova™ Virtual Symposium.

In lieu of our usual Planova event, a virtual symposium will enable us to evolve safely to meet current COVID-19 challenges.

2020 Planova™ US Virtual Symposium

September 30 - October 2, 2020

The theme of the Planova Virtual Symposium is “challenging processes”. This theme includes, among others, the following topics: continuous processing, challenging molecules and process conditions.

The challenges that we all face today with COVID-19 continue to define a new normal, and it is a reminder to the global community of the need for vigilance and cooperation. As we continue to learn how to best serve our communities, Asahi Kasei Bioprocess remains committed to enhancing the safety of biotherapeutic products.

It is now more important than ever to continue communicating with each other. Our event including the Planova Workshop has always been an opportunity for Planova users to share experiences and learn best practices for virus filtration and related applications and technologies.

At our event, key industry leaders in biotherapeutics will also present on topics such as tips for process optimization, validations, regulatory requirements and scaling up to commercial manufacturing. The event presenters are professionals in their fields. The goal of Planova events is always to learn from each other, and support patients and individuals working on the front lines.

Confirmed speakers are shown on the next page. To join the Virtual Symposium, please [register here](#).

For further information, please contact us: WS2020@ak-bio.com

We look forward to seeing you. More information will be forthcoming in our next announcement and on our Virtual Symposium website: <https://planova.ak-bio.com/workshops/2020-planova-us-virtual-symposium/index.php>

Sincerely,

Naokatsu Hiroto
Executive Vice President and General Manager
Asahi Kasei Bioprocess America



2020 PLANOVA™ US VIRTUAL SYMPOSIUM

CHAIRS

Kurt Brorson, Ph.D. Vice President, Technical Regulatory and Access, Parexel International

Scott Lute Biologist/Research Reviewer, CDER, FDA

Sean O'Donnell, Ph.D. Principal Research Scientist, Bioproduct Research and Development, Eli Lilly and Company

SPEAKERS AND PRESENTATIONS (Presentation titles are tentative and ordered alphabetically by speaker's last name)

Strategies for Controlling Virus Risk in Upstream Processes

Andy Bailey, Ph.D., CEO & Operations Director, ViruSure

Presentation in Preparation

Johannes Blümel, Ph.D., Head of Virus Safety Section, Department of Virology, Paul-Ehrlich-Institut

Virus Retentive Filtration in Biotechnology and Bioprocess

Kurt Brorson, Ph.D., Vice President, Technical, Regulatory and Access, Parexel International

Assessment of Planova BioEX and Planova 20N Viral Filtration Performance Across Multiple Process Operation Parameters

Alyssa Driscoll, Associate Scientist, Biosafety Development, Manufacturing and Clinical Supply, Amgen

Determining Process Parameter Impact of Highly Sensitive Molecule Using DOE Screening Results in Planova BioEX Virus Filter Outperforming Platform Virus Filter

Javier Huerta, Associate Scientist, Purification Process Sciences, AstraZeneca

Process Control Strategy Using Filters-in-Series Setup for Virus Filtration

Julie Kozaili, Ph.D., Scientist, Science and Technology, R&D, Asahi Kasei Bioprocess America

Impacts for Integrated Continuous Viral Filtration on Process Parameters and Viral Clearance

Scott Lute, Biologist/Research Reviewer, CDER, FDA

Direct Visualization of Virus Removal Process in Planova Hollow Fiber Membrane Using an Optical Microscope

Takayuki Nishizaka, Ph.D., Professor, Department of Physics, Gakushuin University

Fouling and Retention Behavior of BioOptimal™ MF-SL Microfilter During Cell Culture Harvesting

Xianghong Qian, Ph.D., Professor, Department of Biomedical Engineering, University of Arkansas

Development and Implementation of a Continuous Virus Filtration Strategy at Merck: A Collaboration with Asahi Kasei

William Rayfield, Associate Principal Scientist, Biologics Process Research & Development, Merck & Co., Inc.

Circumnavigate Practical Challenges in Viral Clearance Studies

Horst Ruppach, Ph.D., Scientific and Portfolio Director, Biologics Testing Solutions, Charles River Laboratories

Clogging Model Analysis and Integrated Process Approach of Planova BioEX

Hironobu Shirataki, Ph.D., Manager (Scientific Affairs), Global Marketing Department, Bioprocess Division, Asahi Kasei Medical

Advancing Bioprocess Operations from Pressure to Pump: Robustness of Pump-Based Virus Filtration

Daniel Strauss, Ph.D., Principal Scientist, Science and Technology, R&D, Asahi Kasei Bioprocess America

Adoption of Planova BioEX to a Platform Purification Process

John K. Zehmer, Ph.D., Senior Scientist, Development, Purification Sciences, MacroGenics