Dear Valued Customer,

It is a great pleasure to send to you updated information on:

The 20\textsuperscript{th} Planova Workshop
9-10 November 2017

\textbf{InterContinental Prague, Czech Republic}
Parizska 30, Prague110 00,
Czech Republic

Brussels, 27 June 2017
This year marks the 20th anniversary of the Planova Workshop and the special theme will be the history of the Virus Removal Filter. The Planova Workshop will be filled with a wide variety of many topics such as Planova’s latest innovations in both concept and design. On top of presentations given by actual users, the Global Planova Team will display posters and provide brochures that will be of interest for both the seasoned and new user.

**SESSION CHAIRS**

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

- **Nathan J. Roth, Ph.D.**  
  Senior Director & Head of Global Pathogen Safety  
  CSL Behring

- **Uwe Gottschalk, Ph.D.**  
  Chief Technology Officer  
  Lonza

**PRESENTATION TITLES**

*Titles are tentative and subject to change*

- **High Capacity Filtration: Biotest Next Level, a New Plant to Manufacture a Human Immunoglobulin G Preparation with Removal of Virus by a Planova BioEX Filtration**  
  **Marcel Asper, Ph.D.**  
  Director, Virus Laboratory Pathogen Safety  
  Biotest  
  **Dipl.Ing. Michael Rodemer**  
  Director, Project Manager BNL Team  
  Biotest

- **Upstream Virus Barriers: Why and How**  
  **Andreas Wieser, DI**  
  Senior Lab Associate, Global Pathogen Safety  
  Shire

- **Understanding Virus Filtration Mechanisms and Designing Robust Virus Filtration Processes**  
  **Tomoko Hongo-Hirasaki, Ph.D.**  
  Senior Scientist, Gr Manager of Evaluation and Analysis  
  Asahi Kasei Medical

- **Update on European Viral Safety Regulations**  
  **Johannes Blümel, Ph.D.**  
  Head of Virus Safety Section, Virology  
  Paul-Ehrlich-Institut

- **A Review of Virus Filter Performance — Critical Process Parameters and Best Practice**  
  **Horst Ruppach, Ph.D.**  
  Global Director, Viral Clearance and Virology  
  Charles River
Impact of Operating Conditions on Viral Retention During Viral Filtration
Sean O'Donnell, Ph.D.
Principal Research Scientist, Bioprocess Virology
Eli Lilly and Company

Differential Retention of Parvoviruses During Virus Filtration
Thomas Nowak, Ph.D.
Mgr Sr Virus Validation I, Virus Safety Development
CSL Behring

Evaluation of Pre-Filtration on BioEX Process Performance for Monoclonal Antibodies
Ashlee Smith
Assistant Scientist, API-Large Molecule
Janssen Research and Development

Planova History in Technological Innovation Recognized in Virus Removal Filter
Seiichi Manabe, Ph.D.
(Inventor of Virus Removal Filter)
Manabe Gijutsushi Jimusho

Aspects Impacting Virus Filter Selection for Cell Culture-Based Biomanufacturing Processes
Sven Schubert, Ph.D.
Senior Process Manager, DSP Design/Validation
Rentschler Biotechnologie

Introduction of a Nanofiltration Step in FVIII Purification Process
Filippo Mori, MSc.
Senior Scientist - Research Dept.
Kedrion

Title is to be determined
Judith Percy, MPhil, BSc.
Principal Scientist, Manufacturing Science and Technologies Group
Pfizer

Validation of Planova™ 20N as an Alternative Virus Reduction Filter for a Commercially Approved Product
Denis Twomey, Ph.D.
Principal Scientist, Pharmaceutical Development & Manufacturing Sciences
Janssen Sciences Ireland UC
REGISTRATION AND HOTEL ACCOMMODATIONS

Register to attend the Workshop by clicking on the link below.

Click Here

Registration fee: EURO 200 (excl. VAT)
Registration fee includes workshop attendance, lunch, coffee break, and dinner

Participants can stay at the prestigious InterContinental Prague Hotel. Receive a special rate during the Workshop and also for the night before and/or after the Workshop.

For further information, please contact Asahi Kasei Bioprocess Europe:

**Workshop Information**
Ms Yuka Isono
AsahiWS2017@akbio.eu
+32 2 526 0500 (Central switchboard)
+32 2 526 0506 (Direct line)

**Registration**
Asahi Kasei Registration Secretariat
C/O Destree Organization
WS2017PRAGUE@destree.be

We hope that you will join us at the 20th Planova Workshop.

Yours Sincerely,

Nobuo Nakano
Managing Director

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WORKSHOP SCHEDULE

**Wednesday, 8th November**

15:00
REGISTRATION AND NETWORKING COCKTAIL

**Thursday, 9th November**

1:00
PLENARY SESSIONS

14:00 END OF WORKSHOP

**Friday, 10th November**

2:00
PLENARY SESSIONS

WRAP-UP DINNER (COMPLIMENTARY)

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