

Single-Use Technologies V: Building the Future

Marseille, France
20-23 March 2022

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Monday, March 21, 2022

07:00 – 08:30 Breakfast

Session 1 (Part 1): Single-use in pandemic times – lessons learned and future outlook

Chairs: Ekta Mahajan, Genentech, USA
Jeff Carter, Cytiva, USA

08:30 – 08:40 Introduction by Session Chairs

08:40 – 09:00 **Enablement by single-use technology of production of two billion vaccine doses of adenovirus-vectored vaccine in under a year** 1
Carina Citra Dewi Joe, The University of Oxford, United Kingdom

09:00 – 09:20 **Proactive and reactive supply chain strategies for risk mitigation** 2
Hana Sheikh, Genentech, USA (Virtual)

09:20 – 09:40 **Company and assembly redundancy – a case study** 3
Sheryl Kane, Takeda, USA

Poster Flash

09:40 – 09:45 **A high-throughput single-use platform for vaccine bioprocess development**
(Poster #2)
Sarah Slack, University College London, United Kingdom

09:45 – 09:50 **Supply of customized Single-Use-Mixer's under tight circumstances became an issue under COVID** (Poster #3)
Per Stobbe, CerCell A/S, Denmark

09:50 – 09:55 **High-cell density cryopreservation strategy** (Poster #1)
Julien Muzard, Entegris, France

09:55 – 10:00 **Assessing alternate sparger configurations to mitigate supply chain risks in single-use bioreactors** (Poster #32)
Stephanie Ketcham, Bristol Myers Squibb, USA

10:00 – 10:30 Coffee Break

Session 1 (Part 2): Single-use in pandemic times – lessons learned and future outlook

Chairs: Ekta Mahajan, Genentech USA
Jeff Carter, Cytiva, USA

10:30 – 10:40 Introduction by Session Chairs

10:40 – 11:00 **Implementing X-ray for single use systems sterilization** 4
Samuel Dorey, Sartorius, France

11:00 – 11:20 **Qualifying X-ray irradiation of single-use systems to address new challenges associated with single-use growth** 5
James Hathcock, Pall Corporation, USA

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11:40 – 12:00	Building the future with on demand 3D printing Lena Achleitner, BOKU University of Natural Resources and Life Sciences, Austria	7
12:00 – 13:00	Q&A Panel Discussion	
13:00 – 14:10	Lunch	
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14:10 – 14:15	Bioprocess characterization at the micro-scale: Optical sensor integration in a novel capillary-wave micro-bioreactor (Poster #7) Kevin Viebrock, Technische Universität Braunschweig, Germany	
14:15 – 14:20	µRAMOS: Online monitoring of respiration activities in 96-Deepwell Microtiter plates (Poster #9) Robert Dinger, AVT-.BioVT RWTH Aachen University, Germany	
14:20 – 14:25	In-line monitoring and control of glucose concentration with single-use sensors in CHO and stem cell applications (Poster #11) Jan Müller, Zurich University of Applied Sciences, Switzerland	
14:25 – 14:30	Fluid dynamics in a novel single-use bioreactor for personalised T-cell therapies (Poster #20) Gergana Georgieva Atanasova, University College London, United Kingdom	
	<u>Session 2: Sensors and their integration with single-use technology</u> Chairs: Torsten Mayr, TU Graz, Austria Jim Furey, PendoTECH, USA	
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15:40 – 16:00	Measuring the liquid volume in a flexible bioprocess container with Single Use Pressure Sensors Nick Troise, PendoTECH, USA	10
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16:30 – 17:00	Stretch Break	

Monday, March 21, 2022 (continued)

17:00 – 19:00 **Poster Session 1** with drinks and snacks

20:00 – 21:30 Dinner at MxMarseille

Tuesday, March 22, 2022

07:00 – 09:30 Breakfast

09:30 – 12:30 Excursion – walking tour in the city of Marseille

12:30 – 13:40 Lunch

Poster Flash

13:40 – 13:45 **Driving innovation in sustainability through product Life Cycle Assessments** (Poster #28)
Nicole Hunter, Watson-Marlow Fluid Technology Group, United Kingdom

13:45 – 13:50 **Developing a flexible automated continuous downstream processing system for research to clinical supply** (Poster #13)
Ben Gay, CPI, United Kingdom

13:50 – 13:55 **Clarification of cell culture broth using single use disposable BioSettlers** (Poster #16)
Dhinakar Kompala, Sudhin Biopharma Company, USA

13:55 – 14:00 **Standardization of visible particles measurement in single-use systems, an advantage for the emerging applications** (Poster #22)
Fanny Gaston & Melanie Gauthier, Sartorius Stedim FMT SAS, France

Session 3: Single-Use advantages in continuous and connected processing

Sponsored by Cytiva

Chairs: Catherine Piton, Pall Biotech, United Kingdom
Mark Brower, Merck, USA

14:00 – 14:10 Introduction by Session Chairs

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Martin Glenz, Pall Biotech, Germany

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Andreas Castan, Cytiva, Sweden

14:50 – 15:10 **Process intensification: Impact on cost, facility footprint and sustainability matrix** 13
Miriam Monge, Sartorius, France

15:10 – 15:30 **cGMP friendly single-use TFF filter for continuous biologics manufacturing**
Francisco Pelaez, Merck & Co., Inc., USA

15:30 – 16:00 **Q&A Panel Discussion**

16:00 – 16:30 Stretch Break

16:30 – 18:30 **Poster session 2** with drinks and snacks

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- | | |
|---------------|---|
| 18:30 – 19:30 | Keynote
Pathways to evaluate and improve the sustainability of plastics – an overview
Hans-Josef Endres, Leibniz University Hannover, Germany |
| 19:30 – 21:30 | Banquet Dinner and Awards at the hotel |

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	<u>Session 5: Single use and sustainability</u> <i>Sponsored by Südpack Medica AG</i> Chairs: Kristi Budzinski, Roche Genentech, USA Nelly Montenay, Sartorius, France	
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