

DAY 1
15th SEPTEMBER

18TH ANNUAL CONFERENCE

BIOPROCESSING NETWORK 2025

15.09.2025 - 17.09.2025

Event Open

08:55am

Geoff Dumsday, President, Bioprocessing Network
President welcome

09:00am

Uwe Aickelin, Professor, Head of School at School of Computing and Information Systems, The University of Melbourne
Transforming Australia's Biopharmaceutical Manufacturing Industry through Advanced Bioprocess Models and Digital Innovation

Digital Biomanufacturing

09:30am

Daniel Pham, PhD Student, The University of Melbourne
Robust Optimisation of Chromatographic Sequences using Interval-based Surrogates

09:50am

Timothy Hermanto, Research Assistant, The University of Melbourne
Hybrid machine learning models for predictions of mammalian cell culture metrics
Optimisation of Chromatographic Sequences using Interval-based Surrogates

10:10am

Sebastián Espinel-Ríos, Postdoctoral Researcher, CSIRO
Advancing Bioprocess Control with Reinforcement Learning: From Dynamic Metabolic Engineering to Microbial Consortia

Morning Tea

10:30-
11:00am

BREAK

11:00am

KEYNOTE: Leszek Lisowski, Professor / Unit Head, Children's Medical Research Institute
Next-generation AAVs for next-generation therapeutics: promising clinical tools with unique manufacturing challenges

Emerging Platforms and Modalities

12:00pm

Jukka Kervinen, Global Scientific Expert - Chromatography, Tosoh Bioscience LLC
Advanced biomanufacturing of AAV-based gene therapy vectors

12:20pm

Jeremy Barr, Associate Professor, Monash University
Monash Phage Foundry: Production of a hospital-specific phage cocktail with frontline efficacy and on-demand availability

Lunch

12:45-
01:45pm

BREAK

Pullman Melbourne Albert Park, Melbourne

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EXHIBIT

2040



Bio
Processing
Network
Endless Possibilities

EARLY BIRD EXTENDED UNTIL 22nd AUGUST

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**Sustainable by
Design**

01:45pm

KEYNOTE: Nataša Skoko, Group Leader, Biotechnology Development Unit, International Centre for Genetic Engineering and Biotechnology (ICGEB)

Bioprocessing for All: Low-Cost Solutions and Global Partnerships in Biologics Development

02:45pm

Munish Puri, Professor and Chair Alternative Proteins, Riddet Institute, Massey University, New Zealand

Precision Fermentation of bioresources for Alternative Protein Production: A Sustainable Bioprocessing Strategy

03:10pm

Suzanne Manley, Senior Process Engineer, Wood

Single-Use Materials in Bioprocessing

03:35pm

Tasman van der Woude, Technologist, Bioeconomy Science Institute New Zealand (Scion Group)

Scaling Innovation: From Laboratory Bench to Commercial Readiness Through Advanced Bioprocessing

04:00pm

Jarrold Belcher, Director - Partnerships, MTP Connect

Bioprocessing Workforce Development: Training Landscape

Afternoon Tea

04:15pm

BREAK

Poster Session

04:30pm

Poster Presentations

Welcome Mixer

05:15pm

Drinks & Nibbles

End Day 1

07:15pm

End of Day 1 Formalities

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EARLY BIRD EXTENDED UNTIL 22nd AUGUST

DAY 2
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15.09.2025 - 17.09.2025

Scale, Design, and Efficiency in Bioprocessing

09:00am

Ben Hughes & Diego Pilati, Director, NBF, Australian Institute for Bioengineering and Nanotechnology, The University of Queensland
Pressure testing the molecular clamp-based rapid response vaccine pipeline: a protein subunit vaccine against Chapare Virus

09:30am

Mark Jackson & Tiffany Shar, Head of Manufacturing Sciences and Technology, Thermo Fisher Scientific - PSG
Successful Tech Transfer for all seasons - Traits of a rapid Path to IND and case study on mAb Process Intensification into 2000L and 5000L single use Bioreactors

10:00am

Mirjana (Miri) Dwyer, Lead Process Engineer, IPS Life Sciences
Process scale up optimisation - a tool to maximize investments and minimize operational costs

10:20am

Ananth Sharan, Senior Application Specialist, Eppendorf
An efficient approach to optimise processes and Scale-up using BioNisight Software

Morning Tea

10:35-
11:05am

BREAK

11:05am

Veronica S Martinez, Research Fellow, The University of Queensland
Designing cell factories for Bispecific antibodies production

11:25am

Anton Maraldo, PhD Candidate, UNSW
Structural Analysis of Silk Fibroin, A Highly Versatile Biomaterial Informs the Isolation, Downstream Processing of Formulation for Biomaterial and Tissue Engineering Applications

Start With the End in Mind

11:45am

Javier Fernandez-Chamorro, Computational Biologist, Vow
From Data to Media: A Smart Design Platform for Cell Culture Optimisation Using ML and Automation

12:05pm

Jonathan Barlow, Director, Victoria Fittings and Valves Pty Ltd
To Be Confirmed

12:20pm

TBA, Charles River Laboratories
To Be Confirmed

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DAY 2
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Lunch	12:35-01:35pm	BREAK
	01:35pm	KEYNOTE: Juergen Mairhofer, CEO & Co-founder, enGenes Biotech GmbH Beyond the Bench: Reprogramming E. coli from Genetic Circuits to Continuous Protein and Plasmid DNA Manufacturing
Upstream Process Intensification	02:35pm	Melanie Knoetze, Senior Scientist, Cauldron A continuous fermentation technology at industrial scale that unlocks cost of goods for mainstream, high-volume bioproducts
	03:00pm	Carlos Horacio Luna Flores, Postdoctoral Research Associate, Bioproton/QUT Integrative metabolic analysis of high astaxanthin production in <i>Phaffia rhodozyma</i>
	03:25pm	Alexander Lara-Watson, Process Development Associate, Vow Modern Bioreactors, Control and Automation Systems: From Concept to Factory Scale
Afternoon Tea	03:50pm	BREAK
	04:20pm	Lukas Gerstweiler, Lecturer, The University of Adelaide Integrated continuous downstream process for non-enveloped virus-like particles
Downstream Process Intensification	04:45pm	Phillip Elliott, Associate Director, Process Development, BioCina An adaptable, modern affinity chromatography system to speed time to market for new recombinant protein products
	05:10pm	Maria Soliman, Research Specialist, Protein Expression Facility, University of Queensland Lysis Without Limits: A Gentle Revolution in E. coli Protein Extraction
	05:30pm	TBA, Cytiva Process intensification: From unit operation to complete process
Networking Dinner	06:30pm	Networking Dinner
End Day 2	10:00pm	End of Day 2 Formalities

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DAY 3
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Lightning Talks & Regulatory Insights

09:00am

Jessica Boutros, PhD student, The University of Melbourne
To Be Confirmed

09:10am

Les Tillack, Research Lead in Precision Fermentation, Queensland University
of Technology
To Be Confirmed

09:20am

Vinayaka Srinivas, Director, Cytofarms
To Be Confirmed

09:30am

Michelle Peake, GxP Compliance Manager , SeerPharma
To Be Confirmed

09:40am

Andrew Watson, Director, CBE Pty Ltd & Brett Hyland, Stakeholder
Engagement Manager, NATA
Navigating Calibration - Considerations, Compliance and Contractors

Morning Tea

10:00-
10:30am

BREAK

10:30am

KEYNOTE: May Guo, Founder & CEO, Novaribo Consulting
mRNA-LNP Manufacturing: Current State and Future Directions

11:30am

Robert John Falconer, Professor of Bioprocess Engineering, The University of
Adelaide
Platform Technology for Manufacturing Neoantigen mRNA for Personalized Cancer Vaccines

Start With the End in Mind

11:55am

Hongzhan Di, Global Modality Manager, Merck
To Be Confirmed

12:10pm

Linus Hao, Scientific Strategy Director, Cobetter
Innovative Solutions Addressing CMC Challenges in Plasmid and Viral Vector Manufacturing for
CGT Applications

12:30pm

Sheena Chua, Senior Scientist, Southern RNA
QC analytics: The unsung hero of mRNA clinical manufacturing

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Lunch	12:50- 01:50pm	BREAK
Upstream Process Intensification	01:50pm	Andreja Gramc Livk, Head of Process Analytics, Sartorius BIA Separations Monolithic Columns Improve Quality, Recovery, And Facilitate Innovative Analytics For Complex LNP-Based Therapeutics.
	02:20pm	Vincent Linden, SA Nano/The University of Adelaide, PhD Candidate/Co-founder Democratising Nanomedicine Production: Low-Cost, User-focused Microfluidic Platforms for mRNA Nanoparticle Synthesis
	02:40pm	Xuan Bui, Team Leader, Vaxxas Improved thermostability of mRNA-LNP vaccines in combination with a High-density Microarray Patch
Awards & AGM	03:05pm	Geoff Dumsday, President, Bioprocessing Network Presentation of Poster & Presentation Awards, followed by AGM.
Afternoon Tea	03:35pm	BREAK
Event Close	04:15pm	Conference Close

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