

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

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

10:30am

Robert Bassett, Senior Manager - Data Science and Digital Transformation, CSL
From Code to Insight: Building a Seamless Digital Analysis Ecosystem

**10:50-
11:20am**

BREAK

11:20am

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

12:20pm

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

12:40pm

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

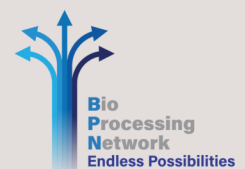
Digital Biomufacturing

Morning Tea

Emerging Platforms and Modalities

Pullman Melbourne Albert Park, Melbourne

WWW.BIOPROCESSINGNETWORK.ORG.AU



EARLY BIRD EXTENDED UNTIL 29th AUGUST

DAY 1
15th SEPTEMBER

18TH ANNUAL CONFERENCE

BIOPROCESSING NETWORK 2025

15.09.2025 - 17.09.2025

Lunch	01:05-02:05pm	BREAK
	02:05pm	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
	03:05pm	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
Sustainable by Design	03:30pm	Suzanne Manley, Senior Process Engineer, Wood Single-Use Materials in Bioprocessing
	03:55pm	Tasman van der Woude, Technologist, Bioeconomy Science Institute New Zealand (Scion Group) Scaling Innovation: From Laboratory Bench to Commercial Readiness Through Advanced Bioprocessing
	04:20pm	Jarrold Belcher, Director - Partnerships, MTP Connect Bioprocessing Workforce Development: Training Landscape
Afternoon Tea	04:35pm	BREAK
Poster Session	05:00pm - 06:00 pm	Poster Presentations
Welcome Mixer	06:00pm	Drinks & Nibbles
End Day 1	08:00pm	End of Day 1 Formalities

Pullman Melbourne Albert Park, Melbourne

WWW.BIOPROCESSINGNETWORK.ORG.AU



EARLY BIRD EXTENDED UNTIL 29th AUGUST

DAY 2
16th SEPTEMBER

18TH ANNUAL CONFERENCE

BIOPROCESSING NETWORK 2025

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
Morning Tea	10:20am	Ananth Sharan, Senior Application Specialist, Eppendorf An efficient approach to optimise processes and Scale-up using BioNsght Software
	10:35-11:05am	BREAK
	11:05am	Veronica S Martinez, Research Fellow, The University of Queensland Designing cell factories for Bispecific antibodies production
Start With the End in Mind	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
	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 Supply Chains, Shelf Life, and Single-Use Systems: Accelerating Product Development in Australia's Biomanufacturing Future
	12:20pm	Tara Cassidy, Charles River Laboratories Principles and Trends in Safety Testing of Biologics

Pullman Melbourne Albert Park, Melbourne

WWW.BIOPROCESSINGNETWORK.ORG.AU



EARLY BIRD EXTENDED UNTIL 29th AUGUST

DAY 2
16th SEPTEMBER

18TH ANNUAL CONFERENCE

BIOPROCESSING NETWORK 2025

15.09.2025 - 17.09.2025

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 *Phaffia rhodozyma*

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

Pullman Melbourne Albert Park, Melbourne

WWW.BIOPROCESSINGNETWORK.ORG.AU



EARLY BIRD EXTENDED UNTIL 29th AUGUST

DAY 3
17th SEPTEMBER

18TH ANNUAL CONFERENCE

BIOPROCESSING NETWORK 2025

15.09.2025 - 17.09.2025

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, Research Director, Happy Petto
Plant protein hydrolysates for scalable cultivated meat manufacturing

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

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

Advanced Bioprocessing of Gene and RNA Therapies

Pullman Melbourne Albert Park, Melbourne

WWW.BIOPROCESSINGNETWORK.ORG.AU



EARLY BIRD EXTENDED UNTIL 29th AUGUST

DAY 3
17th SEPTEMBER

18TH ANNUAL CONFERENCE

BIOPROCESSING NETWORK 2025

15.09.2025 - 17.09.2025

Lunch	12:50-01:50pm	BREAK
LNP Design and Manufacture	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, The University of Adelaide/SA Nano, 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

Pullman Melbourne Albert Park, Melbourne

WWW.BIOPROCESSINGNETWORK.ORG.AU



EARLY BIRD EXTENDED UNTIL 29th AUGUST