

BPN2026 Royal Randwick Sydney

Advanced Programme



DAY 1: Tues 15th September

8:00	Registration				
9:00	Welcome				
Plenary 1 - Upstream Processing					
9:15	Keynote	From sequence to digital twin: closing the prediction gap in precision fermentation	Dr Michael Stumpf	Professor of Theoretical Systems Biology	University of Melbourne
10:00	Open Talk	Fully Continuous manufacturing platform from feed to purified protein in Komagataella phaffii	Mr Yannis Karavias	PhD student	Adelaide University
10:20	Morning Tea				
Plenary 2 - Upstream Processing					
11:05	Invited Talk	Harnessing Blue Carbon to Defossilise Materials Manufacture	Dr Colin Scott	CSO	Uluu Pty Ltd
11:35	Open Talk	Engineering mammalian cell growth dynamics for biomanufacturing	Dr Mauro Torres	Lecturer/Research Group Leader	The University of Queensland/School of Chemical Engineering
11:55	Sponsor Talk	Upstream intensification - Points to consider from cell line development to process development	Ms Janice Tan	Head of Upstream, Process Materials and Process Consultancy, Asia Pacific excluding China	Merck Pte Ltd
12:10	Lunch				
Plenary 3 - Upstream Processing					
13:00	Lightening	Three 5-minute presentations from early-career researchers			
13:30	Open Talk	Scale-Down Model Development: A Critical Enabler for Efficient Bioprocess Development and Manufacturing Success	Dr Alekhya Penumarthi	Tech Ops Scientist	CSL

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13:50	Open Talk	A plasmid-free, antibiotic-free Escherichia coli chassis and two-stage continuous fermentation platform for stable and prolonged astaxanthin production	Dr Ngoc-Phuong-Thao Nguyen	Senior Scientist	SIFBI, A*STAR
14:10	Open Talk	Beyond the Setpoint: Control Transparency as a Foundation for Reproducible, QbD-Driven Bioprocess Development	Mr Sebastian Schneider	Global Application Specialist	Infors HT
14:30	Afternoon Tea				
Plenary 4 - Upstream Processing					
15:15	Invited Talk	From Consortium Design to Manufacturing Scale: Development of a Co-Cultured Gut Bacteria Live Biotherapeutic Product	Dr Andrew Roberston	Head of Research and Development	BiomeBank Pty Ltd
15:45	Open Talk	Predicting Lactate Runaway with Multi-path Latent ODE with Raman Data Fusion	Mr Johnny Peng	PhD Student	UTS
16:05	Sponsor Talk	Addressing Aggregation and Viscosity Challenges in High-Concentration Monoclonal Antibody Formulations with Arginine.Glutamate	Mr Hemasunder Reddy	Director-Asia Pacific	Pfanstiehl, Inc.
16:25	Downtime				
16:40	Mixer & Poster Review				

DAY 2: Wed 16th September

9:00	Welcome				
Plenary 5 - Upstream Processing					
9:10	Sponsor Talk	Integrated Bioprocess Development: From Cultivation to Product Characterisation	Dr Sara Sadeghipour	Product Manager	In Vitro Technologies
9:25	Open Talk	Continuous cultivation and scale-up strategies for sustainable yeast biomanufacturing	Dr Joseph Raphael	Bioprocess Engineer	Levur

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9:45	Open Talk	Towards Predictive Optimisation and Control of Amino Acid Supply in CHO Cell Cultures	Dr Bhagya Yatipanthalawa	Research Fellow	The University of Melbourne
10:05	Morning Tea				
Plenary 6 - Upstream & Viral					
10:50	Sponsor Talk	Bridging the Valley of Death: Approaching Therapeutic Nanoparticle discovery with a GMP Mindset	Dr Sebastian Judd-Mole	Product Manager	Millennium Science and Unchained Labs
11:05	Open Talk	Establishment and Scale-Up of Australia's First Recombinant Lentiviral Vector (rLV) Manufacturing Platform	Dr Vasily Medvedev	Chief Technology Officer	VVMF
11:25	Open Talk	Assessing Product Quality and Process Performance of an rLV Manufacturing Platform at 50 L Scale Using Orthogonal Analytical Testing Strategies	Dr Sharon Cunningham	Analytical Development Manager	VVMF
11:45	Keynote	Pioneering Personalised Medicine in Australia	Mr Chris Peck	Manging Director	Southern RNA
12:30	Lunch				
Plenary 7 - Viral & Downstream					
13:30	Open Talk	Bioprocess Development of the ISVac™ Flavivirus Vaccine Platform Using Suspension Mosquito Cell Culture	Dr Henry de Malmanche	Postdoctoral Research Scientist	The University of Queensland
13:50	Open Talk	UF/DF at the Extremes: Engineering Strategies for High Concentration, Low Mass and High Mass Processing	Mr Dawson Goh	Manager - Process Engineering (DSP)	Thermo Fisher Scientific
14:10	Keynote	Behind the scenes ISPE's 2025 Facility of the Year.	Mr Andrew Hodder	VP Manufacturing and Site Head	CSL Behring Broadmeadows
14:55	Afternoon Tea				
Plenary 8 - Downstream Processing					
15:25	Lightening	Three 5-minute presentations from early-career researchers			

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15:45	Open Talk	Toward Model Predictive Control of Single-Pass Tangential Flow Filtration	Dr Bastian Oetomo	Postdoctoral Research Fellow	The University of Melbourne
16:05	Sponsor Talk	Continuous Downstream Process Orchestration in Pionic® Platform	Dr Yvan Ruland	Technology Consultant - Chromatography	Sartorius
16:35	Invited Talk	A new closed, single-use platform de-bottlenecking aseptic vial filling	Dr Nick Boyd	Head of Biology	Celleo Biotech
17:05	Poster Review (incl judging)				
18:00	Buses leave				
18:30	Conference Dinner				

DAY 3: Thurs 17th September

9:00	Welcome				
Plenary 9 - Downstream Processing					
9:10	Open Talk	Application of Raman Spectroscopy for Real-Time Monitoring of Product Quality Attributes During Downstream Purification	Mr Shih-hsun Chen	Senior Scientist	CSL
9:30	Invited Talk	Scaling up production of AI-designed enzymes for nylon recycling	Dr Maciej Holówko	Director of Bioproduction	Samsara Eco Pty Ltd
10:00	Morning Tea				
Plenary 10 - Downstream Processing					
10:45	Keynote	Optimising Biomanufacturing with AI: From Model Development to Industrial Adoption	Dr Sally Gras	Redmond Barry Distinguished Professor, Digital Bioprocess Development Hub	University of Melbourne
11:30	Open Talk	Influence of mRNA Length on Oligo-dT Affinity Chromatography Performance	Dr Lukas Gerstweiler	Senior Lecturer	Adelaide University

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11:50	Sponsor Talk	Process Intensification in Practice: Technologies That Accelerate Biomanufacturing	Dr Naish Millerick	Business Development Manager and Lead, Bioproduction Group, Thermo Fisher Scientific, Australia and New Zealand	Thermo Fisher Scientific
12:10	Lunch				
Plenary 11 - Downstream Processing					
13:10	Sponsor Talk	Save More Doses to Treat More Patients: Improving Product Recovery During Sterilizing Filtration of High-Concentration Biotherapeutics	Mr Rowan Gorringe	Senior Product Applications Specialist	Cytiva
13:25	Open Talk	An Automated Chromatography Platform for Purification of In Vitro Transcription-Derived mRNA	Mr Chandranil Gharekhan	Postdoctoral Researcher	Adelaide University
13:45	Open Talk	Downstream Processing of Small-molecule Drugs produced by Whole Cell Biotransformation	Ms Gianna Sim	PhD student	Bio21 Institute, The University of Melbourne
14:05	Wrap-Up, Conference Awards				
14:35	BioProcessing Network AGM				
14:50	Close / Afternoon Tea				