



BioProcessing Network Conference Sydney 2026



Conference Program Book

Royal Randwick Racecourse – Australian Turf Club
15th – 17th September 2026



The BioProcessing Network is an association of scientists, engineers, students and others interested in fostering and advancing the knowledge and understanding of the technical aspects of the biotechnology industry.



Hélène
Lebhar

2026 Conference Organising Committee



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Message from the President

Dear Esteemed Attendees,

It is with great pleasure and excitement that I welcome you to the Annual Bioprocessing Network Conference, hosted this year in the city of Sydney. As President, I am honoured to stand before this distinguished assembly of scientists, researchers, industry leaders, and innovators who play a pivotal role in advancing the field of bioprocessing.

Our topics this year, reflect the evolution of bioprocessing and our commitment to harnessing its power to address pressing global challenges. As we gather here, we are reminded of the immense potential this field holds in the realms of healthcare, environmental stewardship, commercialisation and more.

This conference serves as a platform for collaboration, knowledge exchange, and inspiration. Over the next few days, you will have the opportunity to engage in thought-provoking discussions, learn from experts, and forge valuable connections. Together, we will explore the latest breakthroughs, innovations, and best practices that will shape the future of bioprocessing.

I encourage you to take full advantage of this unique gathering, share your insights, and leave with a renewed sense of purpose and vision.

Once again, welcome to Sydney, we hope you enjoy the 19th Annual Bioprocessing Network Conference.

Sincerely,
Helene



**Hélène
Lebhar**
President

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Posters

ADELAIDE UNIVERSITY

Manuella Cazelato Pires

Sophie Oerlemans

Jessica Boutros

BASE FACILITY, UQ

Salina Tondwalkar

&

Abhishek Kulkarni

BIOCHROMATOGRAPHIX INTERNATIONAL

Sarah Dower

BIO-RAD LABORATORIES

Yuhua Ren

CARR BIOSYSTEMS

David Richardson

CELL BAUHAUS

Vishnu Mahamkali

CYTIVA

Christina Cahir

MERCK

Andrew Diamond

Janice Tan

SARTORIUS

Blaz Bakalar

Sherwin Ting

SOUTHERN RNA

Jonathan Peters

TOSOH BIOSCIENCE

Jukka Kervinen

UNIVERSITY OF MELBOURNE

Mohammed Golzarijalal

Navid Akhavan Attar

Pasindu Jayasooriya

Yuxiang Yang

UNIVERSITY OF QUEENSLAND

Neha Lal

UNIVERSITY OF SYDNEY

Mario Torrado del Rey

UNIVERSITY OF TECHNOLOGY SYDNEY

Dilshan Sonnadara

UNSW SYDNEY

Annika Johansson

9:00AM – 9:15am	Helene Lebhar Conference Welcome	BPN PRESIDENT
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Plenary 1

9:15AM – 10:00AM KEYNOTE	Dr Michael Stumpf From sequence to digital twin: closing the prediction gap in precision fermentation	UNIVERSITY OF MELBOURNE
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10:00AM – 10:20AM	Mr Yannis Karavias Fully Continuous manufacturing platform from feed to purified protein in <i>Komagataella phaffii</i>	ADELAIDE UNIVERSITY
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Morning Tea – 10:20AM – 11:05AM

Plenary 2 – Upstream Processing

11:05AM – 11:35AM	Dr Colin Scott Harnessing Blue Carbon to Defossilise Materials Manufacture	ULUU PTY LTD
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11:35AM – 11:55PM	Dr Mauro Torres Engineering mammalian cell growth dynamics for biomanufacturing	THE UNIVERSITY OF QUEENSLAND
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11:55AM – 12:10PM	Ms Janice Tan Upstream intensification - Points to consider from cell line development to process development	MERCK PTE LTD
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Lunch – 12:10PM – 1:00PM

Plenary 3 – Upstream Processing

1:00PM – 1:30PM	Rachel Chang, Franz Wagner Laurett Veras, Cinderella Nowak Three 5-minute presentations from early-career researchers	
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1:30PM – 1:50PM	Dr Alekhya Penumarthi Scale-Down Model Development: A Critical Enabler for Efficient Bioprocess Development and Manufacturing Success	CSL
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1:50PM – 2:10PM	Dr Ngoc-Phuong-Thao Nguyen A plasmid-free, antibiotic-free <i>Escherichia coli</i> chassis and two-stage continuous fermentation platform for stable and prolonged astaxanthin production	SIFBI, A*STAR
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2:10PM – 2:30PM	Mr Sebastian Schneider Beyond the Setpoint: Control Transparency as a Foundation for Reproducible, QbD-Driven Bioprocess Development	INFORS HT
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Afternoon Tea – 2:30PM – 3:15PM

Plenary 4 – Upstream Processing

3:15PM – 3:45PM	Dr Andrew Roberston From Consortium Design to Manufacturing Scale: Development of a Co-Cultured Gut Bacteria Live Biotherapeutic Product	BIOMEBANK PTY LTD
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3:45PM – 4:05PM	Mr Johnny Peng Predicting Lactate Runaway with Multi-path Latent ODE with Raman Data Fusion	UTS
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4:05PM – 4:25PM	Mr Hemasunder Reddy Addressing Aggregation and Viscosity Challenges in High-Concentration Monoclonal Antibody Formulations with Arginine.Glutamate	PFANSTIEHL, INC.
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Mixer & Poster Review – 4:40PM

Plenary 5 – Upstream Processing

9:00AM – 9:10AM **Welcome**

9:10AM – 9:25AM **Ms Cher-Lynn Soh** **IN VITRO TECHNOLOGIES**
Integrated Bioprocess Development: From Cultivation to Product Characterisation

9:25AM – 9:45AM **Dr Joseph Raphael** **LEVUR**
Continuous cultivation and scale-up strategies for sustainable yeast biomanufacturing

9:45AM – 10:05AM **Dr Bhagya Yatipanthala** **THE UNIVERSITY OF MELBOURNE**
Towards Predictive Optimisation and Control of Amino Acid Supply in CHO Cell Cultures

Morning Tea – 10:05AM – 10:50AM

Plenary 6 – Upstream & Viral

10:50AM – 11:05AM **Dr Sebastian Judd-Mole** **MILLENNIUM SCIENCE AND UNCHAINED LABS**
Bridging the Valley of Death: Approaching Therapeutic Nanoparticle discovery with a GMP Mindset

11:05AM – 11:25AM **Dr Vasily Medvedev** **VVMF**
Establishment and Scale-Up of Australia's First Recombinant Lentiviral Vector (rLV) Manufacturing Platform

11:25AM – 11:45AM **Dr Sharon Cunningham** **VVMF**
Assessing Product Quality and Process Performance of an rLV Manufacturing Platform at 50 L Scale Using Orthogonal Analytical Testing Strategies

11:45AM – 12:15PM **Mr Chris Peck** **SOUTHERN RNA**
KEYNOTE Pioneering Personalised Medicine in Australia

Lunch – 12:15PM – 1:15PM

Plenary 7 – Upstream & Downstream

1:15PM – 1:35PM **Dr Henry de Malmanche** **THE UNIVERSITY OF QUEENSLAND**
Bioprocess Development of the ISVac™ Flavivirus Vaccine Platform Using Suspension Mosquito Cell Culture

1:35PM – 1:55PM **Mr Dawson Goh** **THERMO FISHER SCIENTIFIC**
UF/DF at the Extremes: Engineering Strategies for High Concentration, Low Mass and High Mass Processing

1:55PM – 2:40PM **Mr Andrew Hodder** **CSL BEHRING BROADMEADOWS**
KEYNOTE Behind the scenes ISPE's 2025 Facility of the Year.

Afternoon Tea – 2:40PM – 3:10PM

Plenary 8 – Downstream Processing

3:10PM – 3:30PM **Mr Noman Yousuf, Saumya Karunadhika, Eduardo Gorron**
Three 5-minute presentations from early-career researchers

3:30PM – 3:50PM **Dr Bastian Oetomo** **THE UNIVERSITY OF MELBOURNE**
Toward Model Predictive Control of Single-Pass Tangential Flow Filtration

3:50PM – 4:20PM **Dr Yvan Ruland** **SARTORIUS**
Continuous Downstream Process Orchestration in Pionic® Platform

4:20PM – 4:50PM

Dr Nick Boyd

A new closed, single-use platform de-bottlenecking aseptic vial filling

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Poster Review – 4:50PM – 6:00PM

Buses Leave – 6:00PM

Conference Dinner – 6:30PM



Plenary 9 – Downstream Processing

9:00AM – 9:10AM **Welcome**

9:10AM – 9:30AM **Mr Shih-hsun Chen** **CSL**
Application of Raman Spectroscopy for Real-Time Monitoring of Product Quality Attributes During Downstream Purification

9:30AM – 10:00AM **Dr Maciej Holówko** **SAMSARA ECO PTY LTD**
Scaling up production of AI-designed enzymes for nylon recycling

Morning Tea – 10:00AM – 10:45AM

Plenary 10 – Downstream Processing

10:45AM – 11:30AM **Dr Sally Gras** **UNIVERSITY OF MELBOURNE**
KEYNOTE Optimising Biomanufacturing with AI: From Model Development to Industrial Adoption

11:30AM – 11:50AM **Dr Lukas Gerstweiler** **ADELAIDE UNIVERSITY**
Influence of mRNA Length on Oligo-dT Affinity Chromatography Performance

11:50AM – 12:10PM **Dr Naish Millerick** **THERMO FISHER SCIENTIFIC**
Process Intensification in Practice: Technologies That Accelerate Biomanufacturing

Lunch – 12:10PM – 1:10PM

Plenary 11 – Downstream Processing

1:10PM – 1:25PM **Ms Christina Cahir** **CYTIVA**
Save More Doses to Treat More Patients: Improving Product Recovery During Sterilizing Filtration of High-Concentration Biotherapeutics

1:25PM – 1:45PM **Mr Chandranil Gharekhan** **ADELAIDE UNIVERSITY**
An Automated Chromatography Platform for Purification of In Vitro Transcription-Derived mRNA

1:45PM – 2:05PM **Ms Gianna Sim** **BIO21 INSTITUTE, THE UNIVERSITY OF MELBOURNE**
Downstream Processing of Small-molecule Drugs produced by Whole Cell Biotransformation

Conference Awards – 2:05PM – 2:35PM

BioProcessing Network AGM – 2:35PM – 2:50PM

Event Close / Afternoon Tea – 2:50PM



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Product	CAS #	Product Code	Monograph Classification
α,α -Trehalose Dihydrate	6138-23-4	T-104-4	NF, EP, BP, JP, ChP
α,α -Trehalose Dihydrate, Low Glucose	6138-23-4	T-104-4-LG	NF, EP, JP, ChP
Sucrose (Beet Derived)	57-50-1	S-124-2-MC	NF, EP, BP, JP, ChP
Sucrose (Cane Derived)	57-50-1	S-124-1-MC	NF, EP, BP, JP, ChP
D-Mannitol	69-65-8	M-109-7	USP, EP, BP, JP, ChP

Product	CAS #	Product Code	Monograph Classification
L-Arginine	74-79-3	A-170	USP, EP, BP, JP, ChP
L-Arginine Hydrochloride	1119-34-2	A-171	USP, EP, BP, JP, ChP
L-Histidine	71-00-1	H-116	USP, EP, BP, JP, ChP
L-Histidine Hydrochloride Monohydrate	5934-29-2	H-117	EP, BP, JP, ChP
L-Methionine	63-68-3	M-168	USP, EP, BP, JP, ChP
L-Arginine L-Glutamate	4320-30-3	A-172	

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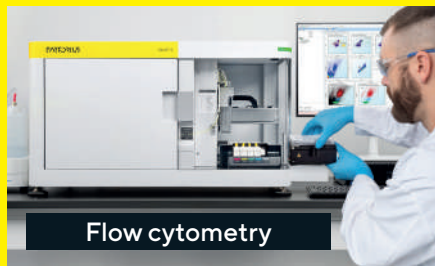
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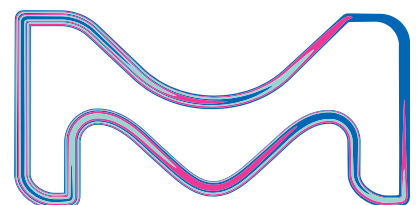
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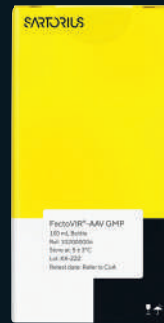
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Sucrose (Cane Derived)	57-50-1	S-124-1-MC	NF, EP, BP, JP, ChP
D-Mannitol	69-65-8	M-109-7	USP, EP, BP, JP, ChP
L-Arginine	74-79-3	A-170	USP, EP, BP, JP, ChP
L-Arginine Hydrochloride	1119-34-2	A-171	USP, EP, BP, JP, ChP
L-Histidine	71-00-1	H-116	USP, EP, BP, JP, ChP
L-Histidine Hydrochloride Monohydrate	5934-29-2	H-117	EP, BP, JP, ChP
L-Methionine	63-68-3	M-168	USP, EP, BP, JP, ChP
L-Arginine L-Glutamate	4320-30-3	A-172	
Glycine	56-40-6	G-140	USP, EP, BP, JP, ChP
Succinic Acid	110-15-6	S-142	NF, EP, BP, JP, ChP
Sodium Succinate Hexahydrate	6106-21-4	D-161	NF, JPE
TRIS base	77-86-1	T-153	USP, EP, BP, ChP
TRIS HCl	1185-53-1	T-154	Sponsoring USP Monograph
Ammonium Sulfate	7783-20-2	A-173	NF, ChP
Galactose (Plant Derived)	59-23-4	G-126-3	NF, EP, BP
D-Glucose	50-99-7	G-139	USP, EP, BP, JP, ChP
D-Mannose	3458-28-4	M-164-2	
Maltose (Monohydrate)	6363-53-7	M-167	NF, JP, ChP
L-Glutamine	56-85-9	G-137	USP, JP, ChP
Methotrexate (Powder)	59-05-2	M-166	USP, EP, BP, JP, ChP
Methotrexate (Sterile Solution)	59-05-2	M-166-S	

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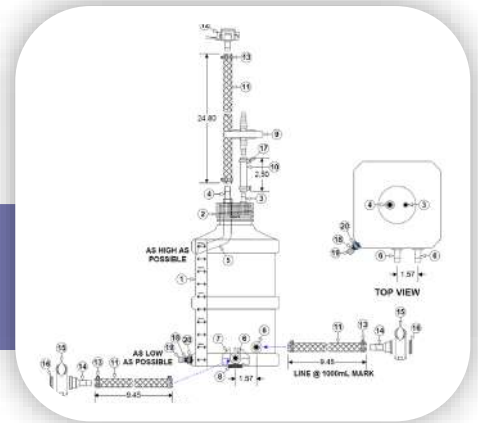
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Galactose (Plant Derived)	59-23-4	G-126-3	NF, EP, BP
D-Glucose	50-99-7	G-139	USP, EP, BP, JP, ChP
D-Mannose	3458-28-4	M-164-2	
L-Glutamine	56-85-9	G-137	USP, JP, ChP
Methotrexate (Powder)	59-05-2	M-166	USP, EP, BP, JP, ChP
Methotrexate (Sterile Solution)	59-05-2	M-166-S	

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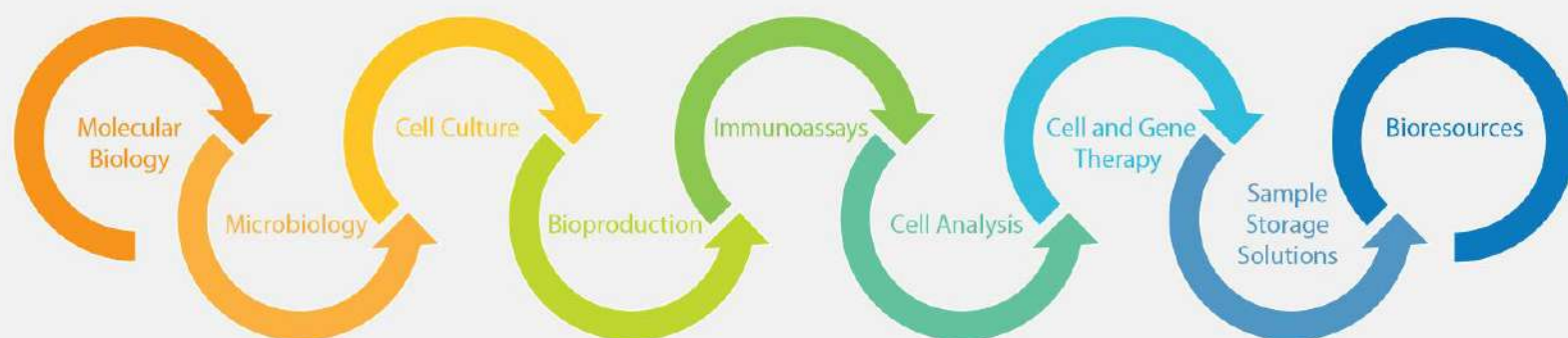
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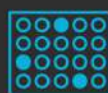
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BUILD YOUR BIOLOGICS PROGRAM ON A STRONG REGULATORY FOUNDATION



CHOvantage platform offers traceable, cGMP-compliant CHO cells with comprehensive documentation to help streamline IND submissions

The Gibco™ CHOvantage™ GS Cell Line Development Kit is designed to support investigational new drug (IND)-enabling biologics development programs. The CHOvantage GS CHO-K1 cell line platform combines cGMP banking practices, documented lineage history, and comprehensive cell line documentation to help you build a strong regulatory foundation for your programs.

The CHOvantage platform is developed within Thermo Fisher Scientific's established quality systems, leveraging decades of experience in cell line development, regulatory compliance, and biologics manufacturing support.

Fully cGMP-banked cells:

CHOvantage cells are cGMP-banked at a qualified facility. The manufacturing facility maintains ISO 14001 certification for its environmental management system and operates under 21 CFR Parts 210 and 211 (cGMP) for drug substance manufacturing and cGMP cell bank production supporting commercial biopharmaceutical products. The cGMP master cell bank (MCB) and the derived cGMP working cell bank (WCB) were manufactured in a qualified facility under controlled conditions in accordance with applicable cGMP requirements. Full traceability

is maintained through comprehensive chain-of-custody documentation. This includes cryopreservation in an animal origin-free (AOF), chemically defined medium.

Cell line lineage overview:

CHOvantage GS CHO-K1 cells are of United States origin. They are banked in an AOF, chemically defined medium. Documented lineage history is maintained within the cell line documentation package (CLDP).

Comprehensive cell line documentation package:

The CHOvantage cell line has a comprehensive CLDP that includes a full lineage history, cGMP-banking details, safety and adventitious agent testing, and characterization reports. The CLDP is available following execution of a commercial license agreement.

Support beyond the cells:

Thermo Fisher provides regulatory and technical support services to assist with IND filings. We want you to be confident that the CHOvantage platform is positioned for smooth regulatory review.

Learn more at thermofisher.com/gibcochovantage

gibco

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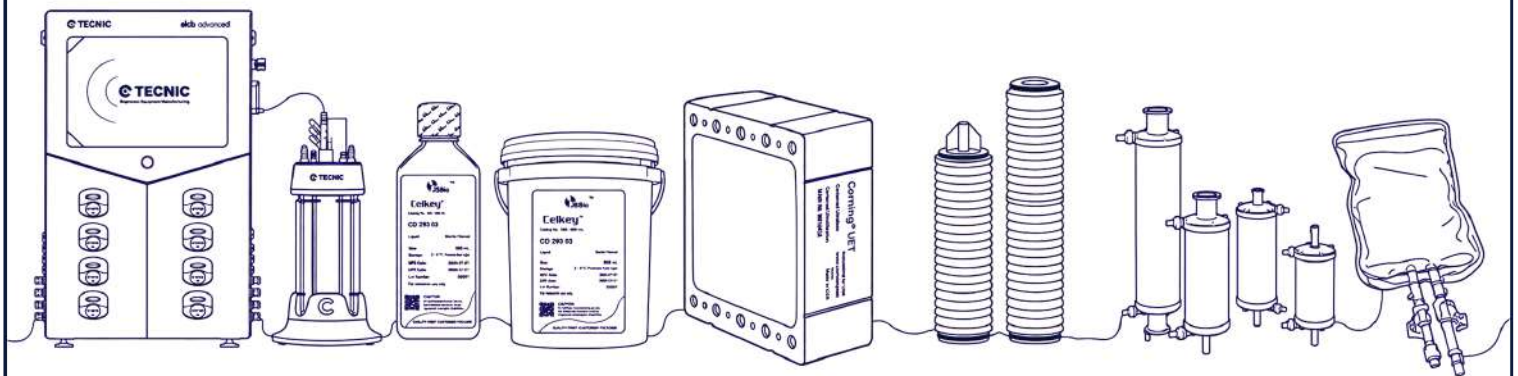
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BIOPROCESSING NETWORK 2026

FIND US AT BOOTH 42

LNP Solutions

For every step of LNP development



Formulation Screening

- Fully automated from 96-well plates
- <4 mins per experiment
- Low reagent & consumable costs



Exploration & Process Development

- Rapidly test process conditions
- From 1mL to continuous production
- Range of mixer types



GMP Production

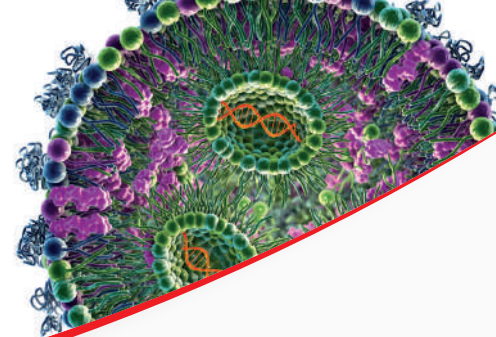
- Process transfer from Sunshine
- 21 CFR Part 11 compliant software
- Fully replaceable flowpath



Quantification & Sizing

- Size, PDI, aggregation
- Particle concentration
- Dye-free total RNA quant

Developing more reliable formulations and enhancing the therapeutic efficacy of the LNPs



1



BioLector XT
Microbioreactor

2



Biomek i-Series
Liquid Handler

3



Echo 650 Series
Acoustic Liquid
Handler

4



Optima X Series
Preparative
Ultracentrifuges

5



Optimate
Gradient Maker

Analysis and Characterization

Active Pharmaceutical Ingredient (API) Production

1

Bioprocess development, production and purification of APIs (such as RNA, DNA, peptides, small molecules etc.)

LNP Formulation

2 3

The API is mixed and packaged in the LNPs through methods such as solvent injections, or emulsification.

Downstream Process Development

2 4 5 6

The LNPs are purified and optimized, and the final formulation is concentrated and buffer exchanged.

7 8 9

Discover the effectiveness and repeatability of formulations through quantification of size, payload distribution, and unloaded LNP presence and functional studies.

6



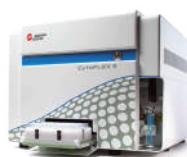
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Flow Cytometer



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LNP formulation,
purification and
bioprocess upscale

Not intended or validated for use in the diagnosis of disease or other conditions.

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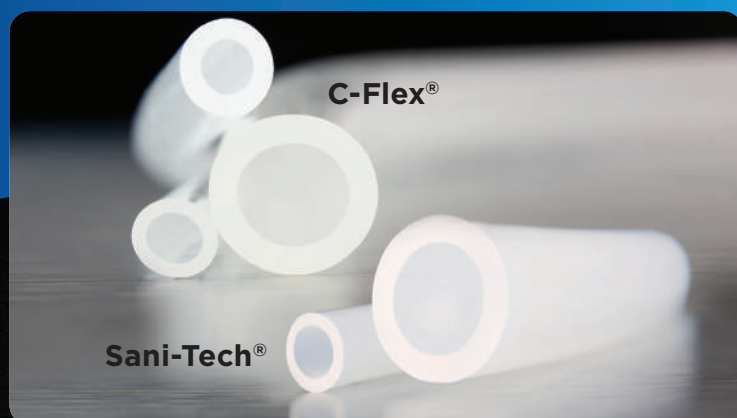




YOUR BIOPROCESSING PARTNER

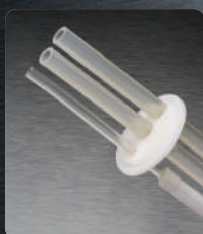
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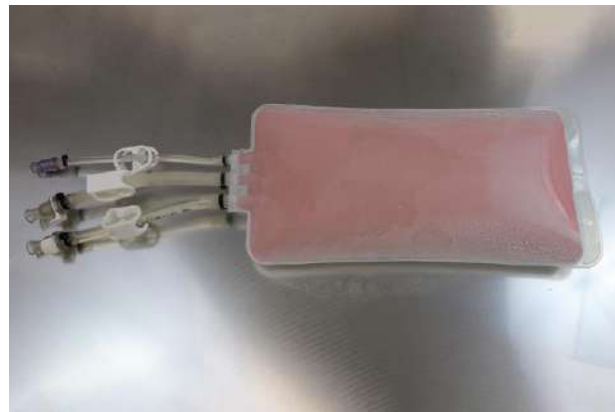
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Showcasing innovative
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at BPN 2026



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silicone tubing



Saint Gobain
Cold Storage bioprocess
bags



CPC Biotech
flow sensor technology



CPC Biotech
Quattroflow pump expanded range



Find us at booth 4



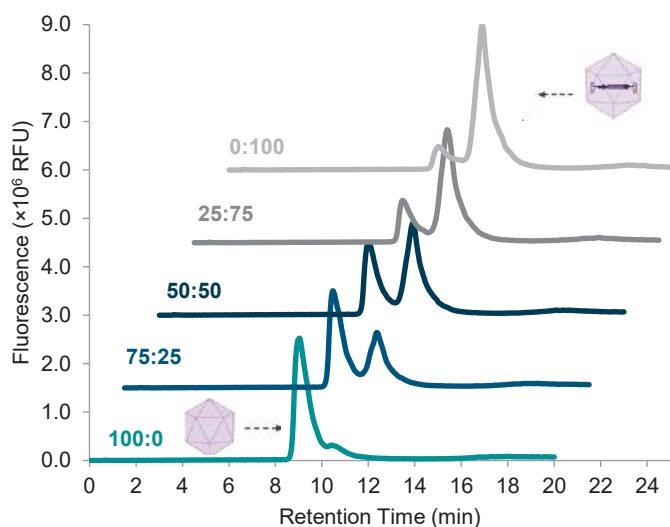
TOSOH BIOSCIENCE

SEPARATION & PURIFICATION

CONNECTING MINDS. TOUCHING LIVES.

TSKgel® & TOYOPEARL® AAV Analysis and Purification Using Non-Toxic Choline Chloride

Full/Empty Capsid Analysis Using TSKgel Q-STAT

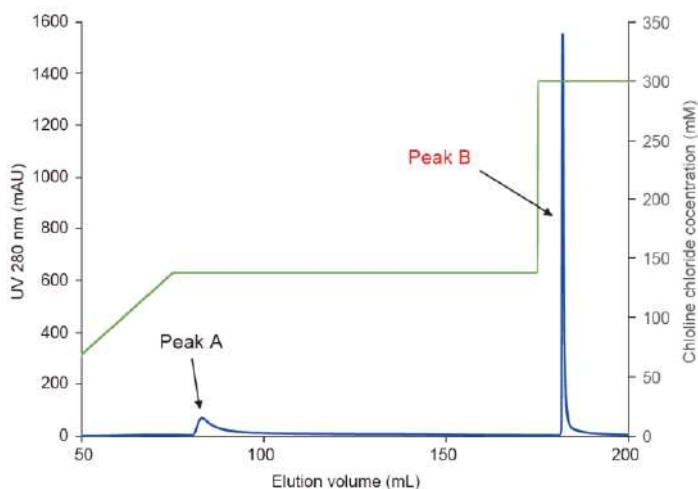


Conditions

Column	TSKgel Q-STAT, 7 μ m, 4.6 mm I.D. $\times$ 10 cm
Buffer A	20 mmol/L Tris-HCl, pH 9.0
Buffer B	1.0 mol/L choline chloride, 20 mmol/L Tris-HCl, pH 9.0
Gradient	10 – 35 % B, 20 min
Flow rate	1.0 mL/min
Detection	Fluorescence, excitation at 280 nm, emission at 350 nm
Temperature	30°C
Sample	AAV5

TSKgel Q-STAT enables effective separation of full and empty AAV capsids.

Full/Empty Capsid Purification Using TOYOPEARL GigaCap Q-650S



Conditions

Resin	TOYOPEARL GigaCap Q-650S
Column	SkillPak 5 mL, 8 mm $\times$ 100 mm
Buffer A	20 mmol/L Tris-HCl, pH 9.0
Buffer B	0.3 mol/L choline chloride, 20 mmol/L Tris-HCl, pH 9.0
Gradient	0 % B $\rightarrow$ 46 % B $\rightarrow$ 100 % B
Sample	AAV8, 15 mL, 7.4×10^{14} capsid particles (cp)

HPLC and AUC Analysis Results of Each Fraction

Sample	Full Capsid Ratio (Q-STAT)	Full Capsid Ratio (AUC)
Load	35 %	35 %
Peak A	0 %	0 %
Peak B	94 %	88 %

Step-gradient purification using TOYOPEARL GigaCap Q-650S enables fractionation of full and empty AAV capsids.

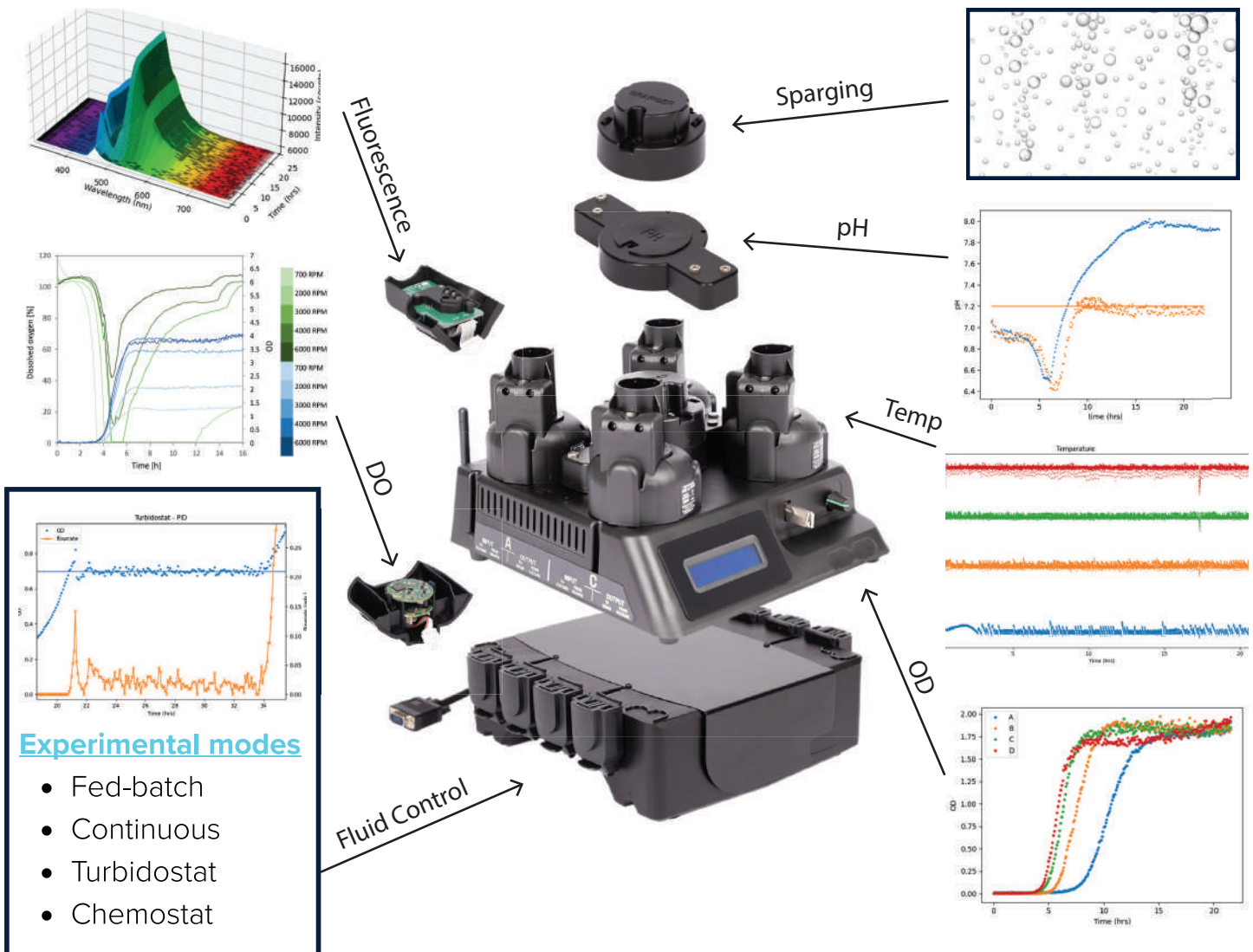
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The BioProcessing Network committee sincerely hopes you found this conference enjoyable and enriching.



Our central mission revolves around fostering collaborations through the exchange of technical knowledge, placing a deliberate emphasis on technical aspects rather than a purely business-oriented approach.

As we witness the emergence of new fields, we strongly believe that the accrued knowledge from one domain can prove invaluable when applied to the next, even as the challenges may differ. The presence of a network to facilitate connections across these diverse fields is more crucial than ever. Such a network not only accelerates progress but also provides a collaborative platform for addressing the multifaceted challenges we encounter today.

Our aspiration is for you to depart with a strong sense of belonging to a community where your active contributions are highly valued. We strongly encourage your participation in shaping the 2027 BPN conference program and eagerly anticipate your presence next year!

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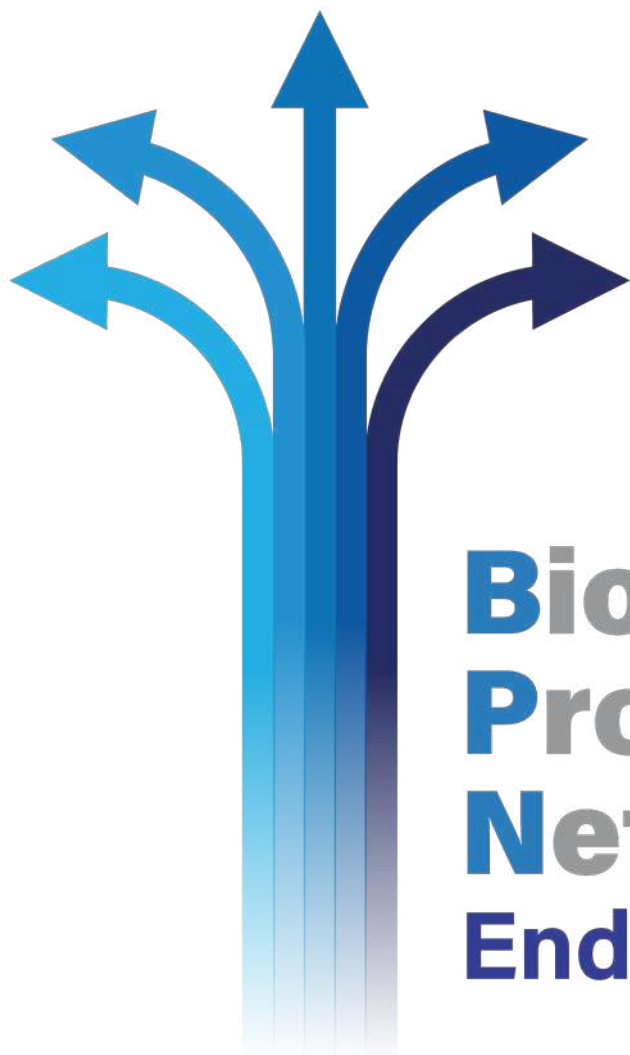
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