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EVENT BROCHURE

BIOLOGICS MANUFACTURING ASIA 2027

ASIA'S #1 BIOPROCESSING EVENT - CELEBRATING 14 YEARS OF UNMATCHED EXCELLENCE!

23 - 24 March 2027 Sands Expo & Convention Centre, Singapore

PART OF BIOPHARMA APAC CONFEX
BIOPHARMA ASIA PACIFIC CONFERENCE, EXHIBITION & AWARDS
MANUFACTURING | ADC | CGT | CLINICAL TRIALS | TIDES | SUPPLY CHAIN

OFFICIAL EVENT BROCHURE

https://infohub.imapac.com/biologics-manufacturing-asia-2027

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EVENT HIGHLIGHTS

1,200+	500+	120+
ATTENDEES	COMPANIES	SPEAKERS

DATE & VENUE

23 - 24 March 2027

Sands Expo & Convention Centre
Singapore

CO-LOCATED EVENTS

BIOSUPPLY CHAIN ASIA 2027
CLINICAL TRIALS FESTIVAL ASIA 2027
ADC ASIA CONGRESS 2027
CELL & GENE THERAPY WORLD ASIA 2027
OLIGOS & PEPTIDES WORLD ASIA 2027

AWARDS

ASIA-PACIFIC BIOPHARMA EXCELLENCE AWARDS 2027

Testimonials

The conference provides a forum for latest sharing and networking among biopharma peers from different organisations. The panel discussions are particularly informative as they cover realistic, contemporaneous and first-hand sharing on opportunities and challenges facing the industry and organisations. One key highlight of the conference is the ABEA Night. This prestigious recognition highlights the outstanding contributions of individual leader advancing biopharma excellence in the Asia-Pacific region.

Vice President & Site Quality Head, Global Quality
Takeda
Singapore

It was a very valuable conference experience. I was pleased to have the opportunity to present and discuss our technology with peers in the field, which led to several new and meaningful engagements. The meeting also offered a strong scientific programme, and it was inspiring to hear high-quality work from other groups. Beyond the content itself, the conference was especially useful for building new connections and opening the door to potential future collaborations.

CTO
Singzyme
Singapore

Thank you so much for organizing such a well-run event. It was truly a pleasure to contribute, and I enjoyed the atmosphere and engagement from the audience during the event.

Corporate Performance Specialist
Biofarma
Indonesia

Overall, we believe the event was very well organized and successful. From an exhibitor's perspective, the arrangement of 1-to-1 meetings was particularly useful and added significant value.

Business Development Director
Pfanstiehl
Singapore

Insights from industry leaders are valuable and cannot be found easily online

Technical Steward
BioNTech
Singapore

Thanks for organizing BioSupply Chain Asia, it was a good event and I have learnt a lot.

Head of Singapore Explore Platform
Sanofi
Singapore

The team was very friendly and helpful. They were committed to scheduling 1-to-1 meetings and ensuring it went smoothly.

BDM
SGS
Singapore

Good team, clever techniques to bring people in contact. Appreciate their effort and help.

Product & Sales Manager
DrM Group
Switzerland

About the Event

The 14th Annual Biologics Manufacturing Asia 2027 is Asia's premier bioprocessing-focused conference, providing a dedicated platform for regional biopharmaceutical industry stakeholders to network, explore strategic collaborations, and gain insights into the latest manufacturing technologies and advancements.

This year's agenda is designed to highlight success stories from Asia's leading biopharma companies while incorporating technical expertise from global biopharma leaders, top pharmaceutical companies, and regulators. Key topics will include cutting-edge manufacturing technologies such as single-use systems and end-to-end continuous processing, challenges and opportunities in biomanufacturing, advancements in upstream process development, cost optimization and timeline reduction in downstream processing, analytical characterization strategies, facility design and scale-up, emerging biologics manufacturing technologies, regulatory updates, and novel biologics modalities.

WHAT WE'LL COVER

Key Themes

Cutting-Edge Manufacturing Technologies

Explore the latest breakthroughs in single-use systems, end-to-end continuous processing, and next-generation biologics manufacturing innovations that will redefine productivity and efficiency.

Process Development & Optimization

Gain practical insights into upstream and downstream process improvements, from cost reduction to timeline acceleration, to ensure your biologics pipeline stays competitive and robust.

Regulatory & Compliance Updates

Stay ahead of changing regulations with updates from international regulators and big pharma, ensuring you meet evolving requirements and quality standards across Asian markets.

Novel Modalities & Future Opportunities

Discover new opportunities in manufacturing advanced biologics and novel modalities, and learn how to overcome current challenges to unlock the full potential of next-generation therapies.

Strategic Collaboration & Networking

Connect with Asia's top biopharma leaders and global experts through a carefully curated networking platform designed to spark strategic partnerships and drive meaningful industry collaborations

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AGENDA AT A GLANCE

DAY 1 | TUESDAY, 23 MARCH 2027

BIOLOGICS MANUFACTURING ASIA 2027

TRACK 1	TRACK 2
Leadership Panel Discussion Building Asia's Global Leadership in Biologics, ADCs & Novel Modalities	
MORNING TEA BREAK | EXHIBITION VIEWING & 1-1 NETWORKING	
Upstream Processing Robust Cell Lines & Optimized Expression Systems	**Downstream Processing** Advancing Final Product Quality: Polishing, Viral Clearance & Formulation
LUNCH BREAK | EXHIBITION VIEWING & 1-1 NETWORKING	
Upstream Processing Process Intensification Strategies: Perfusion, Fed-Batch & High-Density Strategies	**Analytics & Characterization** Next-Generation Methods for Product Quality & Process Excellence
AFTERNOON TEA BREAK | EXHIBITION VIEWING & 1-1 NETWORKING	
Downstream Processing Refining Primary Recovery: Product Capture, Impurity Removal & Novel Methods	**MSAT & Tech Transfer Excellence** Scale-Up, Validation & Lifecycle Management
ASIA PACIFIC BIOPHARMA EXCELLENCE AWARDS 2027 | GALA DINNER	

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AGENDA AT A GLANCE

DAY 2 | WEDNESDAY, 24 MARCH 2027

BIOLOGICS MANUFACTURING ASIA 2027

TRACK 1	TRACK 2
CMC, Analytics & Quality Achieving CMC Excellence, Integrated Analytics, Quality Control & Regulatory Readiness	
MORNING TEA BREAK | EXHIBITION VIEWING & 1-1 NETWORKING	
Formulation, Development & Manufacturing Stability, Drug Product Design & Commercialization	**Smart, Agile and Digital Manufacturing** Flexible Facilities, Digital First Operations and Single Use System
LUNCH BREAK | EXHIBITION VIEWING & 1-1 NETWORKING	
Process Analytics & Real-Time Manufacturing PAT, Advanced Monitoring & Real-Time Release	**Facility Engineering & Infrastructure Excellence** Designing, Operating & Future-Proofing Next-Generation Biomanufacturing Facilities
AFTERNOON TEA BREAK | EXHIBITION VIEWING & 1-1 NETWORKING	

Closing Roundtable Discussion

Bridging the Gaps: Practical Solutions for Manufacturing, Trials, Logistics & Drug Development in Asia

1. Scaling Smarter: How Can We Drive Process Intensification Without Compromising Quality?
2. Future-Proofing Biomanufacturing: What Does a Truly Agile, Digital-First Facility Look Like in Asia?
3. Cracking the Code on ADC Stability: What Formulation Innovations Are Showing Real Results?
4. From Bench to Bedside: What's Missing in Translating Preclinical ADC Wins to Clinical Success?
5. Strategic Licensing in the Asian ADC Market: Unlocking Growth Opportunities
6. Navigating Investment in ADCs: Securing Funding for Innovation in Asia
7. Building a Smart, Resilient Cold Chain: What Technologies Are Actually Reducing Risk Today?
8. Greener Logistics: How Can APAC Balance Efficiency and Sustainability in Biopharma Supply Chains?
9. Winning Over Patients: What Engagement Strategies Are Reshaping Clinical Trial Participation in Asia?
10. Trial Tech & Trust: How Can We Ensure Data Integrity While Embracing AI in Clinical Research?
11. CMC Excellence in a Complex World: What Frameworks Enable Seamless Quality, Analytics, and Compliance?
12. Intelligent Supply Chains: How Are AI, Blockchain, and Automation Rewiring Biopharma Operations?

END OF CONFERENCE

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CONFERENCE AGENDA

Day 1

Tuesday, 23 March 2027

Track 1	Track 2

8:50 **IMAPAC Opening Remarks**

8:55 **Chairman Opening Remarks**

TRACK

Building Asia's Global Leadership in Biologics, ADCs & Novel Modalities

9:00 **Leadership Panel Discussion: Asia's Biologics Ambition: From Regional Manufacturing Hub to Global Innovation Powerhouse**

- Evaluating Asia's competitive advantage in biologics development, manufacturing, and commercialization.
- Identifying critical investments required in talent, infrastructure, and technology to compete globally.
- Strengthening regional collaboration between governments, industry, academia, and investors.
- Building resilient and future-ready biologics ecosystems capable of supporting next-generation therapeutics.

Teck Chung Chang
VP, Site Quality Head, Takeda

Day 1

Tuesday, 23 March 2027

Track 1	Track 2

9:50

Accelerating Development Timelines: Innovative Technologies for Biologics, ADCs & Emerging Modalities

- Showcasing next-generation technologies enabling faster process development and optimization.
- Exploring advanced analytical tools for improving product characterization and quality control.
- Examining innovations in conjugation, formulation, and delivery technologies for ADCs and novel therapeutics.
- Discussing how technology providers and CDMOs can support rapid clinical and commercial manufacturing.

Reserved for Solution Providers

10:05

Advancing Biologics Development: Enhancing Speed, Quality and Commercial Readiness

- Implementing platform-based approaches to accelerate biologics development timelines.
- Improving cell line development, process development, and analytical characterization strategies.
- Managing technology transfer and global manufacturing network expansion.
- Balancing innovation, cost-efficiency, and regulatory compliance throughout product development.

10:30

Morning Tea Break, Exhibition Viewing & 1-1 Attendee Networking

TRACK

Upstream Processing — Robust Cell Lines & Optimized Expression Systems

TRACK

Downstream Processing — Advancing Final Product Quality: Polishing, Viral Clearance & Formulation

Track 1

11:15

Engineering Next-Generation Cell Lines for High Productivity, Stability & Product Quality

- Balancing productivity, genetic stability, and critical quality attributes (CQAs) during cell line development.
- Leveraging CRISPR, targeted integration, and host cell engineering to create robust production cell lines.
- Strategies to address difficult-to-express proteins, bispecific antibodies, and novel biologic modalities.
- Accelerating clone selection and characterization while maintaining regulatory compliance and manufacturability

11:40

AI, Automation & Digital Cell Line Development: Accelerating the Path to High-Producing Clones

- How AI and machine learning are transforming clone selection, cell line screening, and process optimization.
- Digital platforms, automated single-cell cloning, and high-throughput technologies enabling faster development cycles.
- Using predictive analytics to improve manufacturability, productivity, and product quality outcomes.
- Case studies demonstrating reduced timelines and increased success rates through digitalized cell line development

Reserved for Solution Providers

Track 2

11:15

Doing More with Less: Reducing Buffers, Water, Resin and Waste in Downstream Processing

- Addressing the growing buffer and water footprint of large-scale biologics purification.
- Exploring buffer concentrates, inline conditioning and alternative chromatography approaches.
- Extending resin lifetime while maintaining cleaning effectiveness and product quality.
- Connecting DSP sustainability improvements with manufacturing cost and facility capacity objectives.

11:40

Polishing Under Pressure: Removing HCPs, Aggregates and Process-Related Impurities at Higher Titres

- Designing robust polishing strategies for increasingly concentrated and complex feed streams.
- Tackling difficult-to-remove host cell proteins, DNA, aggregates and leachables.
- Optimising resin selection, loading capacity and operating conditions to reduce purification cycles.
- Applying advanced analytics to understand impurity behaviour and strengthen clearance validation

Reserved for Solution Providers

Track 1	Track 2

11:55

Enhancing Upstream Productivity Through Advanced Media and Feed Optimization

- Designing chemically defined media for improved cell performance.
- Optimizing feeding strategies to maximize yield and viability.
- Leveraging metabolomics for media development.
- Real-world examples of process intensification through media optimization.

11:55

Formulation at Higher Concentrations: Solving Stability, Viscosity and Aggregation Challenges

- Developing high-concentration formulations for subcutaneous and patient-friendly delivery.
- Managing viscosity, aggregation, particle formation and protein–protein interactions.
- Optimising excipient selection and formulation conditions to preserve long-term stability.
- Integrating formulation development earlier with upstream and downstream process development.

12:20 **Lunch – Exhibition Viewing & 1-1 Networking**

TRACK
Upstream Processing: Process Intensification Strategies: Perfusion, Fed-Batch & High-Density Strategies

TRACK
Analytics & Characterization: Next-Generation Methods for Product Quality & Process Excellence

Track 1

2:05

Beyond Titre: Redefining Upstream Productivity Through High-Density Process Intensification

- Benchmark perfusion, intensified fed-batch and conventional fed-batch across titre, volumetric productivity and facility throughput.
- Optimise cell-specific productivity, viable cell density and culture longevity without compromising CQAs.
- Manage oxygen transfer, CO_2 accumulation, osmolality and nutrient limitations at ultra-high cell densities.
- Determine when higher upstream productivity translates into lower COGS and smaller manufacturing footprints.

2:30

Intensified Fed-Batch 2.0: Pushing Cell Density Without Pushing Process Risk

- Design high-density seed trains and N-1 perfusion strategies to shorten production bioreactor occupancy.
- Optimise inoculation density, feeding profiles and metabolic control for accelerated production cycles.
- Prevent lactate, ammonia and other inhibitory metabolite accumulation at elevated biomass levels.
- Evaluate the productivity-versus-complexity trade-off compared with full perfusion.

Reserved for Solution Provider

Track 2

2:05

Multi-Attribute Methods 2.0: Moving MAM from Characterization into Routine QC and Product Release

- Expanding LC-MS-based MAM from development laboratories toward QC environments for simultaneous monitoring of multiple product quality attributes.
- Tackling method robustness, validation, data processing and comparability challenges associated with routine MAM implementation.
- Evaluating how MAM can complement or replace conventional analytical assays without increasing regulatory risk.
- Building regulatory confidence and harmonised implementation strategies across differing APAC market requirements.

2:30

AI-Enabled Analytical Development: From Data-Rich Experiments to Faster Quality Decisions

- Applying AI/ML to analytical method development, optimization, and interpretation of complex datasets.
- Connecting PAT, process, and laboratory data to identify emerging quality trends.
- Using predictive analytics to anticipate deviations, OOS/OOT results, and process drift.
- Addressing model validation, data integrity, explainability, and regulatory acceptance across APAC

Reserved for Solution Provider

Track 1	Track 2

2:45

Intensification Without Compromise: Controlling CQAs in High-Density and Continuous Cultures

- Understand how prolonged culture duration and altered cellular metabolism influence glycosylation, charge variants and aggregation.
- Define CPP–CQA relationships specifically for perfusion and high-density processes.
- Establish comparability strategies when transitioning commercial molecules from conventional fed-batch to intensified platforms.
- Build control strategies that satisfy evolving expectations for continuous and intensified biomanufacturing in APAC.

2:45

Next-Generation Impurity Analytics: Detecting the Unknowns Before They Become a Quality Risk

- Advancing detection and quantification of host-cell proteins, residual DNA, aggregates, fragments, process-related impurities and product variants.
- Applying high-resolution MS, NGS and orthogonal analytical technologies to detect low-abundance and previously unidentified impurities.
- Connecting impurity profiles with upstream and downstream process parameters to improve root-cause analysis and clearance strategies.
- Developing risk-based impurity control strategies that remain robust through process changes, scale-up and technology transfer.

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Track 1	Track 2

3:10

Breaking the Density Barrier: Engineering Robust High-Cell-Density Cultures at Commercial Scale

- Optimising cell-line performance, media composition, feeding strategies, and process parameters at ultra-high cell densities.
- Addressing oxygen transfer, CO_2 accumulation, osmolality, metabolite build-up, and mixing limitations as density increases.
- Understanding how intensified culture conditions influence CQAs, glycosylation, aggregation, and product consistency.
- Translating high-density performance from development-scale bioreactors into reliable GMP manufacturing.

Reserved for Solution Provider

3:10

Beyond Manual Testing: Accelerating Quality Decisions Through Automated Analytics

- Advancing automated sample preparation, testing and data analysis to improve throughput, reproducibility and right-first-time results.
- Integrating robotics, miniaturised assays and high-throughput analytical platforms to accelerate testing across development and commercial manufacturing.
- Connecting laboratory automation with LIMS, ELN and manufacturing systems to enable seamless data flow and faster quality decisions.
- Overcoming APAC implementation barriers around validation, legacy-system integration, workforce readiness and investment justification.

Reserved for Solution Provider

3:25

Afternoon Tea Break, Exhibition Viewing & 1-1 Attendee Networking

TRACK

Downstream Processing — Refining Primary Recovery: Product Capture, Impurity Removal & Novel Methods

TRACK

MSAT & Tech Transfer Excellence: Scale-Up, Validation & Lifecycle Management

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Track 1

4:10

Capture Chromatography Under Pressure: Extending Resin Lifetime Without Compromising Product Quality

- Optimising Protein A loading, cycling and resin utilisation as titres continue to increase.
- Controlling resin fouling, ligand leaching and performance deterioration over extended campaigns.
- Evaluating high-capacity resins, membranes and alternative affinity technologies to reduce capture bottlenecks.
- Building resin lifecycle and cleaning strategies suited to APAC's growing multi-product manufacturing environment.

4:35

Smarter Impurity Clearance: Tackling HCP, DNA, Aggregates & Process-Related Contaminants

- Understanding how intensified upstream processes change host-cell protein and impurity profiles.
- Improving removal of HCP, residual DNA, aggregates, leachables and other process-related impurities.
- Applying orthogonal purification strategies to address difficult-to-remove contaminants.
- Using enhanced analytics to understand impurity trajectories and optimise downstream unit operations.

Reserved for Solution Provider

Track 2

4:10

Raw Materials Under Control: Managing Variability During Scale-Up, Transfer & Commercial Manufacturing

- Identifying raw-material attributes with the greatest impact on process performance and product quality
- Managing supplier, lot-to-lot and regional sourcing variability during site transfers
- Developing material qualification and risk-ranking strategies based on process understanding
- Using MSAT and manufacturing data to establish relationships between material variability and CQAs

4:35

From Development to Commercial Scale: De-Risking Biologics Scale-Up Without Losing Process Performance

- Translating small-scale process understanding into robust commercial-scale operating ranges
- Managing scale-dependent CPPs, mass transfer, mixing, shear and bioreactor geometry
- Using engineering runs, scale-down models and risk assessments to predict scale-up failure
- Building MSAT strategies that shorten the path from clinical manufacturing to PPQ

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Track 1

4:50

Continuous & Intensified Downstream Processing: Moving from Unit Operations to Integrated Purification

- Integrating continuous chromatography, filtration and buffer management into connected downstream workflows.
- Overcoming process-control and equipment-integration challenges associated with continuous manufacturing.
- Using PAT and real-time monitoring to maintain critical quality attributes during intensified processing.
- Determining where continuous downstream processing delivers meaningful productivity and COGS advantages in APAC.

5:15

Driving Down Cost of Goods: Maximising Downstream Productivity, Efficiency & Facility Utilisation

- Optimising resin utilisation, buffer consumption and water demand while maintaining yield, purity and critical quality attributes.
- Leveraging buffer concentrates, inline conditioning and inline dilution to reduce preparation burden, storage requirements and facility complexity.
- Applying downstream process intensification to increase throughput and capacity within brownfield and space-constrained APAC manufacturing facilities.
- Translating DSP improvements into measurable gains in cost per batch, cost per gram, facility utilisation and manufacturing capacity.

Track 2

4:50

Managing Change Without Revalidating Everything: Smarter Lifecycle & Post-Approval Change Management

- Applying science- and risk-based approaches to determine the validation impact of process changes
- Leveraging established conditions and Post-Approval Change Management Protocols
- Managing equipment, raw-material, scale and site changes without compromising the validated state
- Navigating different APAC expectations for variations and post-approval CMC changes

5:15

Tech Transfer Under Pressure: Achieving Right-First-Time Transfer Across APAC Manufacturing Networks

- Identifying hidden gaps between sending-unit process knowledge and receiving-site capabilities
- Assessing equipment, facility, raw-material and analytical differences before transfer execution
- Establishing clear MSAT, process development, quality, engineering and manufacturing ownership
- Developing readiness metrics and stage-gate models to reduce deviations and repeat engineering runs

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Day 1

Tuesday, 23 March 2027

	Track 1	Track 2
5:40	Chairman's Closing Remarks	
5:45	END OF DAY 1	
6:00	Cocktails & Networking	
6:30	Asia Pacific Biopharma Excellence Awards 2027 | Gala Dinner	

CONFERENCE AGENDA

Day 2

Wednesday, 24 March 2027

Track 1	Track 2

8:50 **IMAPAC Opening Remarks**

8:55 **Chairman Opening Remarks**

TRACK

CMC, Analytics & Quality Achieving CMC Excellence, Integrated Analytics, Quality Control & Regulatory Readiness (Combined Track 1 and Track 2)

9:00 **Regulatory-Ready CMC: Designing Global Development Programs for FDA, EMA & APAC Expectations**

- Building CMC strategies that anticipate evolving requirements across FDA, EMA and key APAC regulators.
- Aligning analytical validation, process validation, comparability and stability strategies for global submissions.
- Managing post-approval changes, manufacturing changes and lifecycle comparability without disrupting supply.
- Strengthening regulatory engagement and documentation to reduce CMC questions, review cycles and approval delays.

Track 1 | Track 2

9:50

Platform Analytics: Leveraging Analytical Methods Across Products and Development Pipelines

- Establishing platform analytical procedures that can be applied across related molecules, modalities, and product families while maintaining product-specific scientific rigor.
- Streamlining method development, qualification, and validation by leveraging prior analytical knowledge and proven platform capabilities.
- Designing robust bridging and method-transfer strategies across products, manufacturing sites, QC laboratories, and global testing networks.
- Defining the scientific evidence, comparability data, and regulatory justification required to support the use of platform methods across multiple products.

Reserved for Solution Providers

10:05

Comparability Under Pressure: Managing CMC Change Across Scale-Up, Tech Transfer & Manufacturing Networks

- Designing comparability strategies for process changes, scale-up, site transfers, and manufacturing expansion.
- Determining when analytical comparability is sufficient and when additional non-clinical or clinical evidence may be required.
- Using orthogonal and advanced characterization methods to demonstrate product consistency.
- Building change management strategies that enable manufacturing flexibility without creating regulatory delays.

10:30

Morning Tea Break, Exhibition Viewing & 1-1 Attendee Networking

TRACK
Formulation, Development & Manufacturing: — Stability, Drug Product Design & Commercialization

TRACK
Smart, Agile and Digital Manufacturing — Flexible Facilities, Digital First Operations and Single Use System

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Track 1

11:15

From Molecule to Medicine: Designing Drug Products for Stability, Delivery & Manufacturability

- Translating molecule characteristics into the right formulation and dosage-form strategy.
- Balancing potency, concentration, viscosity, stability, and patient usability.
- Applying QbD to identify critical quality attributes and formulation design space.
- Avoiding late-stage redesign by integrating manufacturing requirements from the outset.

11:40

Freeze, Dry or Reformulate? Advancing Lyophilization & Alternative Stability Strategies

- Determining when lyophilization offers advantages over liquid formulations.
- Optimizing freezing, primary drying, secondary drying, and cycle development.
- Applying modeling and PAT to improve lyophilization robustness and cycle efficiency.
- Scaling lyophilization processes while maintaining critical quality attributes and product stability.

Reserved for Solution Providers

Track 2

11:15

From Fixed to Flexible: Designing Multi-Product Facilities for Asia's Changing Biologics Pipeline

- Designing facilities that can rapidly switch between products, modalities, and batch sizes.
- Balancing ballroom, modular, and traditional facility configurations for different manufacturing needs.
- Minimising changeover time, cross-contamination risk, and production downtime in multi-product environments.
- Building flexibility into utilities, equipment, automation, and process flows without overengineering capacity.

11:40

Single-Use at Scale: Solving Cost, Supply and Sustainability Constraints

- Where single-use technologies deliver the strongest operational and economic advantages versus stainless steel.
- Addressing extractables/leachables, integrity, standardisation, and supplier qualification challenges.
- Reducing dependence on imported consumables through stronger regional supply networks and dual sourcing.
- Tackling plastic waste and developing credible sustainability strategies for disposable manufacturing systems.

Track 1	Track 2

11:55

Formulation Under Pressure: Solving Stability Challenges Before They Derail Development

- Identifying degradation pathways and critical stability risks earlier in development.
- Tackling aggregation, oxidation, deamidation, hydrolysis, and other product-specific liabilities.
- Using predictive stability models and accelerated studies to guide formulation decisions.
- Building stability-indicating strategies that support longer shelf life and commercialization.

11:55

Plug, Play, Scale: Modular Manufacturing for Faster Capacity Deployment

- Using modular and prefabricated manufacturing concepts to shorten facility design, construction, and qualification timelines.
- Creating repeatable manufacturing modules that can be replicated across Asian markets.
- Matching modular capacity with uncertain demand and increasingly diversified biologics pipelines.
- Managing regulatory, validation, utility, and technology-transfer challenges when scaling modular facilities.

12:20

Lunch – Exhibition Viewing & 1-1 Networking

TRACK

Process Analytics & Real-Time Manufacturing: — PAT, Advanced Monitoring & Real-Time Release

2:05

From PAT to RTRT: Building the Roadmap to Real-Time Release in Biologics

- Translating PAT data into defensible real-time release strategies for biologics.
- Connecting CPPs, CQAs and in-process measurements to release decisions.
- Validating PAT models and demonstrating continued model performance.
- Regulatory and operational barriers to moving from conventional QC release to RTRT.

TRACK

Facility Engineering & Infrastructure Excellence: Designing, Operating & Future-Proofing Next-Generation Biomanufacturing Facilities

2:05

From Design to GMP Operations: De-Risking Commissioning, Qualification & Facility Start-Up

- Integrating C&Q requirements from concept and detailed design stages
- Risk-based commissioning and qualification of facilities and utilities
- Improving handover between engineering, validation, quality and operations
- Avoiding common start-up failures that delay GMP readiness and production

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Track 1

2:30

Soft Sensors & Virtual Measurements: Predicting What You Cannot Measure In-Line

- Developing soft sensors for CQAs that cannot be directly measured continuously.
- Combining process data, mechanistic models and multivariate analytics.
- Model calibration, validation and lifecycle management across batches and sites.
- Using predictive signals for earlier deviation detection and proactive intervention.

Reserved for Solution Providers

2:45

PAT Across the Bioprocess: Connecting Upstream, Downstream & Product Quality

- Deploying PAT from cell culture and harvest through chromatography and formulation
- Monitoring CQAs and CPPs across interconnected unit operations
- Connecting upstream variability with downstream purification performance
- Building an integrated analytical control strategy instead of isolated PAT applications

Track 2

2:30

Engineering the Cleanroom of the Future: Smarter HVAC, Zoning & Energy Optimization

- Optimizing air-change rates without compromising GMP requirements
- Risk-based cleanroom classification and HVAC zoning
- Applying CFD and dynamic environmental control to facility design
- Reducing HVAC energy consumption and lifecycle operating costs

2:45

Contamination Control by Design: Engineering Facilities for Annex 1 & PIC/S Readiness

- Embedding contamination control strategy into facility layout and engineering design
- Engineering pressure cascades, segregation and personnel/material flows
- Integrating barrier technologies, environmental monitoring and closed processing
- Designing facilities that maintain inspection readiness throughout their operational lifecycle

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Track 1	Track 2

3:10

Digital Twins for Biologics: From Process Simulation to Real-Time Control

- Developing hybrid digital twins using first-principles models and manufacturing data
- Connecting PAT measurements to continuously update process-state estimates
- Predicting deviations, yield and product-quality outcomes before they occur
- Using digital twins for scale-up, process optimization, operator decision support and control

3:10

Capacity Without Overbuilding: Engineering the Right Facility for Asia's Next Biologics Pipeline

- Using dynamic capacity modelling to determine facility size and configuration
- Balancing current demand against uncertain future pipeline requirements
- Deciding when to expand, retrofit, modularize or build greenfield capacity
- Avoiding over-engineering while retaining sufficient flexibility for future products and technologies

3:35 **Afternoon Tea Break, Exhibition Viewing & 1-1 Attendee Networking**

TRACK

Closing Roundtable Discussion: Bridging the Gaps: Practical Solutions for Manufacturing, Trials, Logistics & Drug Development in Asia

Head of Production: Lara Santiago · lara.santiago@imapac.com · +639176210686 | **Senior Conference Producer:** Melina Dass · melina.dass@imapac.com · +6562303594

Day 2

Wednesday, 24 March 2027

Track 1	Track 2

4:20

Scaling Smarter: How Can We Drive Process Intensification Without Compromising Quality?

- Future-Proofing Biomanufacturing: What Does a Truly Agile, Digital-First Facility Look Like in Asia?
- Cracking the Code on ADC Stability: What Formulation Innovations Are Showing Real Results?
- From Bench to Bedside: What's Missing in Translating Preclinical ADC Wins to Clinical Success?
- Strategic Licensing in the Asian ADC Market: Unlocking Growth Opportunities
- Navigating Investment in ADCs: Securing Funding for Innovation in Asia
- Building a Smart, Resilient Cold Chain: What Technologies Are Actually Reducing Risk Today?
- Greener Logistics: How Can APAC Balance Efficiency and Sustainability in Biopharma Supply Chains?
- Winning Over Patients: What Engagement Strategies Are Reshaping Clinical Trial Participation in Asia?
- Trial Tech & Trust: How Can We Ensure Data Integrity While Embracing AI in Clinical Research?
- CMC Excellence in a Complex World: What Frameworks Enable Seamless Quality, Analytics, and Compliance?
- Intelligent Supply Chains: How Are AI, Blockchain, and Automation Rewiring Biopharma Operations?

5:20

Chairman's Closing Remarks

5:30

END OF DAY 2

Awards & Recognition

ASIA-PACIFIC BIOPHARMA EXCELLENCE AWARDS 2027

Asia-Pacific Biopharma Excellence Awards 2027

23RD MARCH 2027 | SANDS EXPO & CONVENTION CENTRE, SINGAPORE

The Asia-Pacific Biopharma Excellence Awards (ABEA) 2027 aims to honour exceptional achievements in the Asian biopharma sector, recognizing excellence in bioprocessing, logistics and supply chain management, antibody-drug conjugates (ADC), and clinical trials over the past year. Celebrating the remarkable contributions of leading biopharma professionals, organizations, and technologies, the awards spotlight trailblazing leaders and trendsetters shaping the industry's future while inspiring innovation for tomorrow's biopharma landscape.

Learn More About Our Awards

Expected Audience Snapshot

85%
ATTENDANCE FROM BIOPHARMA, BIG PHARMA, CDMOS & CROS

85%
DECISION MAKERS

BY PROFILE

Asian Biopharma	45%
International Biopharma	20%
CMOs	15%
Academic & Research Institutes	10%
Technology & Service Providers	10%

BY JOB TITLE

VPs & Directors of Process Development	25%
USP & DSP Specialists & Researchers	25%
Head of Quality Assurance & Analytics	20%
Head of Manufacturing & Bioprocessing	15%
Business Development & Marketing	15%

BY GEOGRAPHY

25%	Korea & Japan
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25%	Singapore
20%	Indonesia, Australia, Thailand, India & Malaysia
12%	USA & Europe

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23–24 MAR 2027

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Biologics Manufacturing Asia 2027

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CATEGORY	EARLY BIRD (By 3 Oct 2026)	REGISTRATION (By 5 Dec 2026)	STANDARD (By 6 Feb 2027)	FINAL CALL
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2-Day Conference Pass **Job Profiles:** Manufacturing, Bioprocessing, Production, USP, DSP, Operations, Site Heads, Drug Substance and Product Manufacturing, Process Development, Quality, Analytics and other related technical designations	SGD 1,495	SGD 1,695	SGD 1,895	SGD 2,095
BIOPHARMA, ACADEMIC & RESEARCH — BASED OUTSIDE OF ASIA				
2-Day Conference Pass **Job Profiles:** Manufacturing, Bioprocessing, Production, USP, DSP, Operations, Site Heads, Drug Substance and Product Manufacturing, Process Development, Quality, Analytics and other related technical designations	SGD 1,995	SGD 2,195	SGD 2,395	SGD 2,595
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Sands Expo & Convention Centre
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23 - 24 March 2027

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MANUFACTURING | ADC | CGT | CLINICAL TRIALS | TIDES | SUPPLY CHAIN

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2000+	700+	250+	72+
ATTENDEES	COMPANIES	SPEAKERS	NETWORKING HOURS

CO-LOCATED CONFERENCES

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- CLINICAL TRIALS FESTIVAL ASIA 2027
- ADC ASIA CONGRESS 2027
- BIOSUPPLY CHAIN ASIA 2027
- BIOLOGICS MANUFACTURING ASIA 2027

A VARIETY OF PRODUCTS TO CATER TO GLOBAL BIOPHARMACEUTICAL INDUSTRY'S MARKET INTELLIGENCE AND BUSINESS CONNECTIONS NEEDS.

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HELPING THE GLOBAL BIOPHARMACEUTICAL INDUSTRY

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