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Sam Chuang Highlights Strategic Foundations And Regulatory Innovation Shaping Global Biomanufacturing

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Speaking at the Charles River APAC Biomanufacturing Leadership Summit, Sam Chuang discussed how evolving regulatory science, integrated development strategies and global collaboration are strengthening the foundations for next generation biologics manufacturing.

In the session titled Strategic Foundations Regulatory Innovation And Global Outlook, Sam Chuang, Executive Director Scientific Advisory Services at Charles River Laboratories, examined the structural shifts shaping the global biomanufacturing ecosystem and the regulatory frameworks supporting innovation in biologics development.

Chuang emphasised that the success of modern biologics development increasingly depends on aligning scientific strategy with regulatory expectations from the earliest stages of product development. As therapeutic modalities become more complex including monoclonal antibodies, cell therapies and gene based medicines, regulatory agencies around the world are adapting their frameworks to support faster yet robust pathways to clinical and commercial manufacturing.

A key theme of the presentation was the need for strong scientific and operational foundations across the development lifecycle. Chuang explained that early decisions in cell line development, process design and analytical strategy can significantly influence long term manufacturing scalability and regulatory acceptance. Companies that integrate regulatory considerations during early development are often able to accelerate clinical timelines while reducing downstream manufacturing risks.

He also highlighted the growing importance of global regulatory harmonisation as biotechnology companies increasingly pursue multi region development and commercialisation strategies. Coordination among regulatory authorities including the U.S. Food and Drug Administration and the European Medicines Agency is gradually creating more predictable pathways for biologics development, particularly for innovative therapeutic modalities.

Chuang noted that regulatory innovation is increasingly focused on enabling advanced manufacturing technologies, digital quality systems and more flexible development approaches. These frameworks are helping companies adopt modern bioprocessing strategies while maintaining the stringent quality standards required for global biologics supply.

He concluded by emphasising that the future competitiveness of the biopharmaceutical sector will depend on how effectively companies integrate science, regulatory insight and manufacturing readiness. Organisations that build strong strategic foundations early in development will be better positioned to scale biologics programmes efficiently and navigate complex global regulatory landscapes.

About The Event

This session was part of the APAC Biomanufacturing Leadership Summit 2026 presented by Charles River, a leadership forum bringing together biopharmaceutical manufacturers, CDMOs, biotechnology innovators, investors, and regulatory experts from across the Asia Pacific region.

The summit focuses on advancing discussions around next generation biomanufacturing, regulatory readiness, advanced analytics, and global collaboration required to support the rapidly evolving biologics and advanced therapy landscape.

Through keynote presentations, expert panels, and technical sessions, the event highlights strategies that strengthen Asia Pacific's role as a critical node in the global biopharmaceutical manufacturing ecosystem.

For more information visit https://events.criver.com/event/APAC2026/summary.