Case Study: CN Bio and Life Science Group

Overview
CN Bio, a leader in organ-on-a-chip technology, partnered with Life Science Group (LSG), a UK-based Contract Development and Manufacturing Organisation (CDMO), to develop bespoke media and supplement solutions. With expertise in customised biological processing and manufacturing, LSG provided the flexibility and quality assurance needed to support CN Bio's innovative systems. The collaboration, which began before the COVID-19 pandemic, has since evolved into a strategic partnership focused on scaling production and addressing unique operational challenges.

How the Collaboration Began
The collaboration originated when CN Bio sought a reliable CDMO to create tailored media and supplements for their organ-on-a-chip systems. LSG's reputation for delivering high-quality, bespoke solutions and its ability to adapt to the specific needs of biotech innovators made it the ideal partner for this project.

Project Overview
The project initially focused on developing and producing sample media and supplements customised to CN Bio's specifications. LSG's role included scaling production from small batches to 20-litre volumes and managing the complexities of products with tight expiry dates. Throughout, LSG maintained GMP compliance, ensuring that all products met the highest standards of quality and safety.

Life Science Group's Role
LSG brought its specialised expertise in biological material processing and manufacturing to the collaboration. The team worked closely with CN Bio to develop customised solutions, scale production efficiently, and implement robust stock control processes. LSG's flexibility and commitment to quality were instrumental in meeting the project's technical and operational demands.

Key Outcomes and Achievements
The partnership enabled CN Bio to access consistent, high-quality media and supplements tailored to their needs. LSG successfully scaled production to meet growing demand while maintaining stringent quality standards. The collaboration also allowed both organisations to enhance their operational efficiencies and foster innovation, paving the way for future growth.

Challenges and Solutions
Managing stock for products with tight expiry dates required precise planning and control. LSG addressed this by implementing advanced inventory management systems to minimise waste and ensure timely delivery. Scaling production from small batches to larger volumes presented another challenge. LSG overcame this by refining manufacturing processes and employing meticulous quality control measures to maintain consistency and reliability.

What Life Science Group Gained
Through this collaboration, LSG gained invaluable experience in scaling production volumes while maintaining GMP compliance and quality. The project strengthened LSG's position as a flexible CDMO

capable of managing complex, custom manufacturing requirements. It also reinforced their expertise in handling expiry-sensitive products, further enhancing their operational capabilities.

Future Plans

The partnership is set to grow, with plans to increase batch sizes to meet CN Bio's expanding requirements. LSG will also support the introduction of kitting services to CN Bio's product catalogue, offering additional value to their customers. This continued collaboration highlights the mutual commitment to advancing innovation and operational excellence.

Conclusion

The partnership between CN Bio and Life Science Group illustrates the significant value a strategic collaboration with a capable CDMO can deliver. By leveraging complementary expertise, the relationship has driven innovation, operational success, and growth, supporting advancements in drug discovery and development.