

Axxam and BiomimX collaborate to advance human-relevant drug discovery with next-generation Organ-on-Chip technologies

Milan (Italy) – July 16, 2026 – Axxam S.p.A., a leading provider of integrated early discovery services, and **BiomimX S.r.l.**, an innovative biotechnology company developing advanced Organ-on-Chip (OoC) technologies, today announced a collaboration to advance human-relevant in vitro models, enabling more predictive preclinical research and supporting the de-risking of drug discovery programs.

Axxam provides comprehensive **early discovery solutions from Target to Lead**, including AI-enabled target identification, target validation, assay development, high-throughput screening (HTS), hit identification and hit-to-lead activities. Through this collaboration, BiomimX complements these capabilities with its proprietary **uBeat®** technology, a **New Approach Methodology (NAM)** that combines microfluidics, living human cells and physical stimuli to generate clinically and human-relevant 3D in vitro models. Together, the two companies will offer integrated solutions that enable researchers to evaluate therapeutic candidates in increasingly predictive human in vitro models throughout the drug discovery process, initially focusing on cardiovascular disease research and cardiotoxicity assessment to support target validation, disease models and more predictive evaluation of both efficacy and cardiac safety.

By combining these complementary technologies, the two companies can now offer clients a continuum of experimental models with increasing biological complexity, ranging from scalable screening assays to advanced Organ-on-Chip systems. This enables researchers to select the most appropriate platform for each stage of drug discovery.

“At Axxam, we believe that selecting the right experimental model at the right stage of drug discovery is essential for improving the probability of success,” said **Ciriaco Maraschiello, CEO of Axxam**. “The integration of BiomimX’s uBeat® technology significantly strengthens our ability to support clients with increasingly predictive and physiologically relevant models, creating a seamless path from high-throughput screening to advanced Organ-on-Chip systems. This collaboration further reinforces our commitment to delivering innovative, human-relevant drug discovery solutions.”

“New Approach Methodologies are gaining real momentum, and their value extends across the whole discovery process, from target validation and disease modelling through to safety assessment” said **Paola Occhetta, CEO and Co-Founder of BiomimX**. “Partnering with an established discovery player like Axxam is exactly how Organ-on-Chip technology reaches the researchers who need it, by combining Axxam’s power to screen at scale with advanced, human-relevant models that show how a candidate behaves in functionally mature human tissue. Together we can give clients a clearer view of both efficacy and safety.”

Ultimately, Axxam and BiomimX aim to help drug developers improve translational confidence, reduce development risk and accelerate the delivery of innovative therapies to patients.

About Axxam S.p.A.

Axxam is a leading provider of integrated discovery services across the life sciences industry. Axxam supports pharmaceutical and biotechnology companies, start-ups, patient foundations, and academic institutions throughout the drug discovery journey, from AI-enabled target identification and wet-lab target validation to hit identification and hit-to-lead optimization, regardless of therapeutic area or target class.

Its services include assay development, high-throughput screening using either Axxam's proprietary synthetic and natural compound collections or client libraries, hit validation, hit-to-lead, and compound management.

The same science-driven approach is also applied to the discovery of new bioactive compounds for crop protection, animal health, food and beverage, pet food, cosmetics, and fragrance applications.

For more information, visit www.axxam.com.

About BiomimX S.r.l.

BiomimX is a pioneer in Organ-on-a-Chip (OoC) technology, dedicated to transforming pharmaceutical drug discovery through clinically relevant in vitro models. At the core of their innovation is the proprietary uBeat® platform, which integrates microfluidics, 3D human cell cultures, and controlled mechanical stimulation. This unique approach produces "Beating OoCs" that replicate human pathophysiology with unprecedented precision.

Its flagship uHeart model is a functional heart-on-chip enabling the assessment of electrical and contractile cardiac liabilities in human 3D tissue. The uBeat® platform also powers a growing pipeline including uKnee (osteoarthritis), uScar (cardiac fibrosis), and models for gut, lung and multi-organ applications.

BiomimX enables faster, cost-effective, and ethical drug development, positioning itself as a key leader in the global shift toward predictive non-animal testing.

For further information, please visit www.biomimx.com.