

Drug delivery/DDS

Weekly Intelligence Report

2026-05-18 | 28 articles | 7 countries

troy-technical.jp

This Week's Keyword

GLP-1 & CDMO Dynamics

AI drug discovery and RNA therapeutics also surge.

28

articles

Total Articles Analyzed

7

countries

Source Countries

\$2.1B

USD

AI Drug Discovery Funding

\$12.84B

USD

Viral Vector Market (2036)

All 28 Articles This Week — 5-Axis Evaluation Matrix

How to read columns — Tech Novelty: degree of breakthrough Market Proximity: closeness to commercialization Market Impact: industry-wide effect Data Reliability: quantitative data & peer review US/EU Relevance: direct impact on US/European companies & supply chains

#	Article Title	Type	Tech Novelty	Market Proximity	Market Impact	Data Reliability	US/EU Relevance	Summary
#01	Isomorphic Labs AI Drug	Corp. Strategy	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ●	Alphabet-backed Isomorphic Labs secures \$2.1B to scale AlphaFold-driven AI drug discovery platform.
#02	OpenBind AI Drug Data	Research	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ●	●●●●○ ●	Oxford's OpenBind releases first open dataset & AI model for drug-target interaction prediction.
#03	Pharma Mfg Realignments	Market Analysis	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ●	Major pharma divests manufacturing to CDMOs, expanding capacity for biopharma and sterile injectables.
#04	Bora Acquires MacroGenics	Corp. Strategy	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ○	Bora Group acquires MacroGenics' US biopharma manufacturing, boosting CDMO capacity.
#05	siRNA Beyond Liver	Research Review	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ●	siRNA therapeutics expand beyond liver with new chemical mods and delivery systems, e.g., Zilebesiran.
#06	Oral Obesity Drug Race	Market Analysis	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	Global pharma races for oral obesity drugs, including GLP-1/GIP dual agonists and microneedle patches.
#07	CPHI Japan Peptide Dev	Industry Report	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	CPHI Japan highlights GLP-1 demand bottleneck, driving greener peptide synthesis in CDMOs.
#08	Amgen MariTide Phase 3	Clinical Dev.	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ●	Amgen's MariTide, an antibody-peptide conjugate for obesity, advances to Phase 3 with monthly dosing.
#09	Zealand Pharma Obesity	Clinical Dev.	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ●	Zealand Pharma advances obesity drugs petrelintide (Roche) and survodutide (BI) to Phase 3.
#10	GLP-1 Mfg Expansion	Industry Report	●●●●○ ○	●●●●○ ●	●●●●○ ●	●●●●○ ○	●●●●○ ●	Soaring GLP-1 demand drives massive global manufacturing capacity expansion and tech transfer.
#11	Modern CDMO Blueprint	Market Overview	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ●	Modern CDMOs offer integrated solutions for diverse modalities, focusing on advanced therapies.
#12	Small Molecule CDMO	Market Report	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ○	Small molecule CDMO market grows, driven by HPAPI and continuous manufacturing, WuXi AppTec leads.
#13	Divi's Labs 'TSMC Pharma'	Market Analysis	●●●●○ ○	●●●●○ ●	●●●●○ ●	●●●●○ ○	●●●●○ ○	India's Divi's Labs positioned as 'TSMC of Pharma' for peptides, expanding capacity for GLP-1.

#	Article Title	Type	Tech Novelty	Market Proximity	Market Impact	Data Reliability	US/EU Relevance	Summary
#14	Novo Nordisk CagriSema	Clinical Dev.	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ●	Novo Nordisk's CagriSema (GLP-1/amylin analog) shows over 22% weight loss in Phase 3.
#15	BPC Peptide Mfg AI	Corp. Strategy	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ●	BPC pioneers continuous flow synthesis and AI for peptide manufacturing, investing \$500M in Ireland.
#16	Lilly Oral Orforglipron	New Product	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ●	Eli Lilly's oral, non-peptide GLP-1, orforglipron, approved by FDA for obesity, effective in older adults.
#17	EktaH NKS-3 Obesity	Clinical Dev.	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	EktaH's novel obesity drug NKS-3 shows promising early data for fat loss with muscle retention.
#18	Viral Vector Mfg Market	Market Report	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ●	Viral vector manufacturing market to reach \$12.84B by 2036, driven by gene therapy and CDMOs.
#19	Silexion KRAS siRNA	Clinical Dev.	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	Silexion starts GMP mfg for KRAS-targeting siRNA SIL204, approved for Phase 2/3 in pancreatic cancer.
#20	US Small Molecule API	Market Report	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ●	US small molecule API market forecast to reach \$103.37B by 2035, driven by HPAPI and domestic mfg.
#21	Lentiviral Mfg CDMO	Market Overview	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ●	CDMOs are crucial for lentiviral vector manufacturing, accelerating gene therapy commercialization.
#22	Synth Small Mol API	Market Report	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ○	Synthetic small molecule API market to grow through 2035, driven by oncology, generics, HPAPI.
#23	Avidity AOCs Muscle Tx	Clinical Dev.	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ●	Avidity Biosciences advances AOCs for muscle diseases, with DM1 candidate entering Phase 3.
#24	Celltrion Revenue \$3.4B	Corp. Strategy	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ●	Celltrion projects \$3.4B revenue in 2026, driven by expanding European biosimilar market share.
#25	Alteogen Biosimilar	New Product	●●●●○ ○	●●●●○ ●	●●●●○ ○	●●●●○ ○	●●●●○ ○	Alteogen secures South Korean approval for aflibercept biosimilar 'Eygenpiju,' following EU authorization.
#26	Veritas AI mRNA Drug	Research /Corp.	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	Japanese biotech Veritas In Silico uses AI platform 'aibVIS' for mRNA-targeted small molecule drug discovery.
#27	Curanex Phyto-N IND	Clinical Dev.	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ○	●●●●○ ●	Curanex advances Phyto-N for ulcerative colitis towards FDA IND, expands pipeline to cancer cachexia.
#28	Daiichi Sankyo ADC Loss	Corp. Strategy	●●●●○ ○	●●●●○ ●	●●●●○ ●	●●●●○ ○	●●●●○ ○	Daiichi Sankyo reports major loss from ADC supply 'miscalculation' despite strong Enhertu sales.

●●●●○ High ●●●●○ Med-High ●●●●○ Med ●●●●○ Low | Yellow highlight = featured article

Three Questions That Demand Your Decision This Week

1 Is your GLP-1 supply chain resilient to surging demand?

The unprecedented demand for GLP-1 drugs is creating manufacturing bottlenecks and driving massive CDMO investments. Are your long-term supply contracts flexible enough, and have you diversified your CDMO partners to mitigate risks like those faced by Daiichi Sankyo (#28)? Which green chemistry innovations are you adopting?

2 Are you leveraging AI for drug discovery or falling behind?

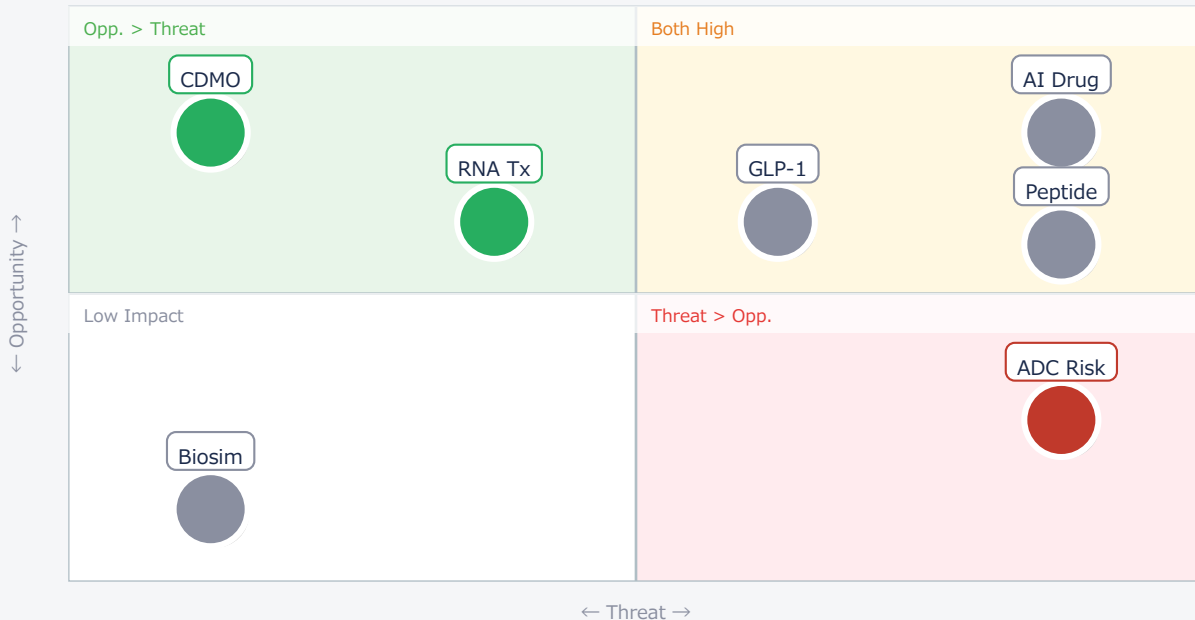
With Isomorphic Labs securing \$2.1B (#01) and Oxford releasing open AI datasets (#02), AI is rapidly transforming drug discovery. Is your R&D team actively integrating advanced AI platforms for target identification and compound design, or are you at risk of being outpaced by AI-first biotechs and major pharma partnerships?

3 How will next-gen obesity drugs impact your market strategy?

Oral GLP-1s (Eli Lilly's Orforglipron, #16), dual agonists (Novo Nordisk's CagriSema, #14), and long-acting injectables (Amgen's MariTide, #08) are redefining obesity treatment. Does your pipeline effectively differentiate against these innovations, and are you prepared for a market shift towards more convenient and potent therapies?

Opportunities vs. Threats for US/European Companies

Opportunity vs. Threat Matrix for US/European Companies



Item	Quadrant	↑ Opportunity	↓ Threat
● AI Drug	Critical	Accelerate discovery	Lag in AI adoption
● GLP-1	Critical	Market leadership	Intense competition
● Peptide	Critical	CDMO growth	Supply chain risk
● CDMO	Opp.	Efficient outsourcing	Vendor lock-in

● RNA Tx	Opp.	New therapies	High development cost
● ADC Risk	Threat	Improve contracts	Financial losses
● Biosim	Ref.	Market entry	Price erosion

Deep Dive ① — GLP-1 Manufacturing: Capacity & Sustainability

#10 | 2026/05/10 | IntuitionLabs | Tech Novelty ●●●○○ Proximity ●●●●● Market Impact ●●●●● Data Reliability ●●●○○ US/EU Relevance ●●●●●

The explosive demand for GLP-1 drugs (Wegovy, Zepbound) is driving massive global investments in manufacturing capacity by Novo Nordisk (\$4.1B, \$16.5B Catalent acquisition) and Eli Lilly (\$15B+).

The complex peptide structures and stringent requirements are straining supply, accelerating CDMO partnerships, and pushing for greener chemistry and continuous flow synthesis to enhance sustainability and efficiency.

► Strategic Analyst's Perspective

Strategic Analyst's Perspective: Published investment figures are realistic given the market size and demand. Technical barriers include scaling complex peptide synthesis (SPPS) while integrating green chemistry and continuous flow methods. [Opportunity] for US/EU CDMOs to invest in advanced, sustainable peptide manufacturing capacity and expertise. [Threat] for US/EU pharma of supply chain disruptions, escalating costs, and reliance on limited CDMOs if they don't secure long-term, flexible contracts. Next actions: [Procurement] Immediately review GLP-1 supply contracts for flexibility and diversification. [R&D;] Evaluate continuous flow synthesis and green chemistry partners by end of quarter. [Strategy] Assess long-term manufacturing footprint and CDMO partnership strategy within 6 months.

Deep Dive ② — siRNA Therapeutics: Beyond Liver Targeting

#05 | 2026/05/15 | MDPI | Tech Novelty ●●●●○ Proximity ●●●●○ Market Impact ●●●●○ Data Reliability ●●●○○ US/EU Relevance ●●●●●

siRNA therapeutics are expanding beyond liver-targeted therapies (GalNAc conjugates) due to advancements in chemical modifications and novel delivery systems (DDS).

Zilebesiran, an siRNA for hypertension, is in Phase 3, showing sustained blood pressure reduction for up to six months. C16 conjugates for CNS and TRiM for pulmonary targets are also showing promising clinical data.

► Strategic Analyst's Perspective

Strategic Analyst's Perspective: The clinical data for Zilebesiran and other extrahepatic delivery platforms appear promising, indicating a realistic expansion of siRNA utility. Technical barriers include ensuring specificity, reducing off-target effects, and optimizing delivery to diverse tissues beyond the liver. [Opportunity] for US/EU biotech and pharma to acquire or develop novel DDS platforms for extrahepatic siRNA delivery, opening new therapeutic areas like CNS and respiratory diseases. [Threat] for companies focused solely on traditional small molecules or biologics, as RNA therapeutics gain ground on 'undruggable' targets. Next actions: [R&D;] Initiate internal projects or partnerships to explore novel siRNA delivery platforms for non-hepatic targets within 3 months. [Business Dev] Identify and evaluate potential M&A; targets or licensing opportunities in advanced DDS for RNA therapeutics immediately. [Strategy] Re-evaluate long-term pipeline strategy to incorporate RNA-based modalities.

Deep Dive ③ — Eli Lilly's Oral GLP-1: Orforglipron FDA Approved

#16 | 2026/05/12 | Medscape | Tech Novelty ●●●○○ Proximity ●●●●● Market Impact ●●●●○ Data Reliability ●●●○○ US/EU Relevance ●●●●●

Eli Lilly's once-daily oral GLP-1 receptor agonist, orforglipron (Foundayo), received U.S. FDA approval in April 2026 for chronic weight management.

As a non-peptide oral tablet, it offers significant convenience by eliminating fasting restrictions and demonstrated efficacy and a favorable safety profile in older adults (65+), an underserved demographic.

► Strategic Analyst's Perspective

Strategic Analyst's Perspective: The FDA approval and efficacy data for orforglipron are highly realistic and represent a significant market shift. Technical barriers for competitors include developing non-peptide oral GLP-1s with comparable bioavailability and safety profiles. [Opportunity] for US/EU pharma to develop highly convenient oral formulations for chronic diseases, particularly for elderly populations. [Threat] for companies relying solely on injectable GLP-1s or oral versions with strict administration requirements, as patient preference shifts towards easier-to-use options. Next actions: [R&D;] Benchmark oral GLP-1 development against orforglipron's profile and explore non-peptide drug design. [Marketing] Develop strategies to address patient convenience and adherence for existing injectable therapies. [Executive] Assess competitive landscape and potential market share erosion for existing obesity drugs within 1 month.

Other Notable Articles

Isomorphic Labs Secures \$2.1 Billion for AI Drug Discovery (Pharmaceutical Technology)

Tech Novelty ●●●●○ Proximity ●●●○○ Market Impact ●●●●○

Alphabet-backed Isomorphic Labs' massive funding signals strong market confidence in AI-driven drug discovery platforms.

Novo Nordisk's CagriSema Achieves Over 22% Weight Loss in Phase 3 Trials (Life Science Daily News)

Tech Novelty ●●●●○ Proximity ●●●○○ Market Impact ●●●●○

CagriSema's potent weight loss (GLP-1/amylin analog) positions it as a major contender against Eli Lilly's Zepbound.

Viral Vector Manufacturing Market Projected to Reach USD 12.84 Billion by 2036 (OpenPR)

Tech Novelty ●●○○○ Proximity ●●●●● Market Impact ●●●●○

Gene therapy growth drives viral vector CDMO market, with a shift to scalable suspension cell culture platforms.

Avidity Biosciences Leads Muscle Disease Therapy with Antibody-Oligonucleotide Conjugates (AOCs) (Bitget)

Tech Novelty ●●●●○ Proximity ●●●○○ Market Impact ●●●●○

Avidity's AOCs show promise for targeted muscle delivery, with a DM1 candidate entering Phase 3 for a first-in-class therapy.

Daiichi Sankyo Records Significant Loss Due to ADC Supply 'Miscalculation' (東洋経済オンライン)

Tech Novelty ●○○○○ Proximity ●●●●● Market Impact ●●●●●

Daiichi Sankyo's \$1.1B loss from ADC supply chain issues highlights critical risks in complex contract manufacturing.

Recommended Actions This Week

Action recommendations based on article evaluation matrix and opportunity/threat analysis.

Immediate (this week)

- [Executive] Review competitive landscape for oral GLP-1s and next-gen obesity drugs, assessing immediate market threats.
- [Procurement] Initiate urgent review of all long-term CDMO contracts, especially for complex biologics (ADCs, peptides), for minimum purchase obligations and flexibility clauses.
- [R&D;] Task AI/ML teams to benchmark internal drug discovery platforms against AlphaFold-driven capabilities and open datasets.

Short-term (1 month)

- [Strategy] Develop a strategic roadmap for integrating AI into early-stage drug discovery, including potential partnerships or acquisitions.
- [R&D;] Evaluate novel siRNA delivery platforms for extrahepatic targets (CNS, pulmonary) and assess feasibility for pipeline integration.
- [Business Dev] Identify and engage with specialized peptide CDMOs demonstrating green chemistry and continuous manufacturing capabilities to secure future GLP-1 supply.

Medium-long term (quarter+)

- [R&D;] Invest in non-peptide oral drug development capabilities to compete with new market entrants like Eli Lilly's orforglipron.
- [Supply Chain] Implement a robust risk management framework for complex drug manufacturing, including scenario planning for demand fluctuations and geopolitical risks.
- [Legal/IP] Conduct a comprehensive IP landscape analysis for advanced RNA therapeutics and targeted delivery systems to identify white spaces and potential infringement risks.

troy-technical.jp/en | Original curation. Article copyrights belong to respective authors. | Gemini API + Claude | 2026-05-18

DrugDiscovery_DDS — Selected Articles

Date: 2026-05-18

Articles: 28

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Isomorphic Labs Secures \$2.1 Billion for AI Drug Discovery, Scaling AlphaFold-Driven Platform for Diverse Modalities

Published May 13, 2026 Pharmaceutical Technology UK



OVERVIEW

Isomorphic Labs, an Alphabet-backed AI drug discovery company, has closed a monumental \$2.1 billion Series B funding round to accelerate its AI-driven drug development efforts. The investment will primarily advance its proprietary IsoDDE AI drug design engine, which integrates advanced AlphaFold models for protein structure prediction, to propel a diverse pipeline of small molecules, peptides, and antibodies toward clinical development. This record-breaking funding, the second largest ever for a biotech, underscores strong market confidence in AI's potential to revolutionize pharmaceutical discovery.

Background

The pharmaceutical industry is at an inflection point, with Artificial Intelligence (AI) emerging as a transformative force in drug discovery. Conventional drug development faces formidable challenges, including prolonged timelines, exorbitant costs, and high failure rates. AI promises to mitigate these hurdles by dramatically improving efficiency across target identification, compound screening, optimization, and toxicity prediction. Isomorphic Labs, an integral part of the Alphabet ecosystem, has garnered significant attention by building upon DeepMind's groundbreaking AlphaFold technology for protein structure prediction, positioning itself at the vanguard of AI-driven drug discovery.

Key Findings / Results

Isomorphic Labs has successfully concluded a Series B funding round, raising an impressive \$2.1 billion to accelerate its AI-powered drug development initiatives. This substantial investment was spearheaded by prominent investors including Thrive Capital, Alphabet's venture arms GV and CapitalG, along with sovereign wealth funds such as Temasek and the UK Sovereign AI Fund. The capital infusion is earmarked for the continued advancement of the company's flagship AI drug design engine, IsoDDE. Integrating evolved AI models, including AlphaFold 3, IsoDDE extends beyond protein structure prediction to sophisticated capabilities in identifying binding efficacy and potential toxicological side effects. This robust platform enables the design of drugs across various modalities, including small molecules, peptides, and antibodies, aiming to address a broad spectrum of diseases. Isomorphic Labs has already forged strategic alliances with major pharmaceutical players such as Novartis, Johnson & Johnson, and Eli Lilly, signaling strong industry validation.

Technical Significance & Outlook

The unprecedented \$2.1 billion financing round signifies a profound market conviction in AI drug discovery's transition from exploratory research to tangible clinical advancement. This capital will empower Isomorphic Labs to accelerate its global expansion, diversify its therapeutic pipeline, and expedite the translation of its cutting-edge AI models into large-scale therapeutic programs. The company's disease-agnostic approach, striving to "solve any disease," distinguishes it from more specialized competitors. While the funding provides substantial runway, Isomorphic Labs maintains confidentiality regarding its specific clinical candidates, underscoring the ongoing challenge of demonstrating real-world clinical success for AI-designed drugs. This investment, nevertheless, solidifies the perception of AI as a fundamental game-changer, poised to redefine the future landscape of pharmaceutical innovation.

Source: <https://www.pharmaceutical-technology.com/news/isomorphic-labs-ai-drug-development/>

Collected: May 15, 2026 | Automated Research System (Gemini API)

OpenBind Launches First Open Dataset and AI Model to Enhance Drug-Target Interaction Prediction, Applied to EV-A71 Virus

Published May 12, 2026 University of Oxford UK



OVERVIEW

Researchers at the University of Oxford, as part of the OpenBind consortium, have released the first open dataset and predictive AI model specifically designed for drug discovery. This dataset comprises detailed X-ray images and binding affinity measurements for 699 compounds interacting with the EV-A71 virus protein, making it the largest public dataset for a single protein target. The initiative aims to furnish AI models with high-quality experimental data, thereby improving the reliability of drug-target interaction predictions and streamlining early-stage drug design processes.

Background

The burgeoning field of AI-driven drug discovery relies heavily on the quality and quantity of experimental data used for model training. Accurately predicting how a drug molecule interacts with its protein target is a critical, yet challenging, step in the early phases of drug development. Despite advancements in protein structure prediction, a persistent lack of high-quality, consistent experimental data on drug-target interactions has historically constrained the full potential of AI applications in this domain, creating a bottleneck for reliable predictive modeling.

Key Findings / Results

As part of the OpenBind consortium, researchers at the University of Oxford have unveiled a groundbreaking open dataset and a corresponding predictive AI model tailored for drug discovery. This dataset contains comprehensive X-ray crystallographic images for 699 distinct compounds bound to the EV-A71 virus protein, alongside binding affinity measurements for 601 of these interactions. Representing the largest publicly available dataset for a single protein target, it significantly fortifies the data infrastructure for AI drug discovery models. The data generation methodology combines automated chemistry, binding assays, and X-ray crystallography, ensuring high consistency and quality. The primary objective is to equip AI models with robust experimental evidence to enhance their predictive accuracy for drug-target interactions, thereby rationalizing and accelerating the design of novel therapeutics.

Technical Significance & Outlook

The release of OpenBind's high-quality open dataset is poised to exert a substantial impact on the AI drug discovery landscape. It provides an invaluable resource for researchers and pharmaceutical companies to develop and validate new computational approaches, potentially leading to significant reductions in the time and cost associated with identifying and refining promising lead compounds. The open-access nature of the data is expected to foster accelerated innovation across both academia and industry. While this initiative remains in the realm of fundamental research and direct clinical applications are still in the future, such data-driven advancements are crucial for improving the reliability of drug design and could eventually pave the way for tackling historically 'undruggable' targets, thereby expanding therapeutic frontiers.

Source: <https://www.ox.ac.uk/news/2026-05-12-openbind-releases-first-open-dataset-and-ai-model-for-drug-discovery>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Pharmaceutical Manufacturing Realignment Create Expansion Opportunities for CDMOs: GSK, BMS, Sanofi Divest Facilities

Published May 12, 2026 Pharmaceutical Technology USA



OVERVIEW

A significant reconfiguration is underway in the pharmaceutical manufacturing sector, with major CDMOs acquiring production facilities from pharmaceutical companies. Samsung Biologics, Rois, and Adragos Pharma have purchased sites from GSK, Bristol Myers Squibb (BMS), and Sanofi, respectively. This trend expands CDMO capacity in biopharmaceuticals and sterile injectables, allowing pharmaceutical companies to divest non-core assets and refocus on R&D and commercialization. The moves highlight the CDMO sector's evolution into more integrated partners, offering end-to-end solutions from clinical to commercial production.

Background

The global pharmaceutical industry is navigating a complex landscape characterized by escalating drug development complexities, increasing specialization, and a heightened imperative for supply chain resilience. In response, many major pharmaceutical companies are strategically reassessing their manufacturing operations, leading to an accelerated trend of divesting non-core production assets and increasing outsourcing to contract development and manufacturing organizations (CDMOs). This shift is driven by the emergence of advanced modalities such as cell and gene therapies, highly potent active pharmaceutical ingredients (HPAPIs), and antibody-drug conjugates (ADCs), all of which demand specialized technical expertise and substantial capital investments in manufacturing infrastructure. These evolving dynamics present significant growth opportunities for the CDMO sector.

Key Findings / Results

As a critical facet of the ongoing pharmaceutical manufacturing realignment, several leading CDMOs have acquired manufacturing facilities from major pharmaceutical companies. Notably, South Korea's Samsung Biologics purchased GSK's Rockville, Maryland manufacturing site, establishing its first U.S. production presence and adding 60,000L of drug substance manufacturing capacity capable of supporting multi-scale clinical and commercial biopharmaceutical production. Concurrently, Rois (Laboratorios Farmaceuticos Rovi) acquired Bristol Myers Squibb's (BMS) sterile injectables facility in Phoenix, Arizona. Furthermore, Adragos Pharma secured Sanofi's sterile fill-and-finish facility in France. These acquisitions collectively underscore a broader industry trend where pharmaceutical companies are strategically restructuring their manufacturing portfolios, including domestic capabilities, thereby creating significant avenues for CDMOs to offer comprehensive, integrated manufacturing solutions.

Technical Significance & Outlook

This series of strategic moves unequivocally signals a concerted shift by pharmaceutical companies to streamline operations, divest non-core assets, and deepen their reliance on CDMO partners. By acquiring established facilities, inheriting skilled workforces, and assuming existing manufacturing contracts, CDMOs are positioned to ensure continuity of supply and expanded capacity for their clients, thereby fostering more integrated supply chains. The substantial increase in CDMO capabilities, particularly in biopharmaceuticals and sterile injectables—areas demanding highly specialized expertise and infrastructure—is expected to robustly support both clinical and commercial pipelines going forward. Key challenges for CDMOs include the seamless integration of acquired facilities, successful technology transfers, and maintaining agility to meet diverse and rapidly evolving manufacturing demands. This trend is anticipated to further accelerate the specialization and efficiency of the entire pharmaceutical supply chain, driving innovation in manufacturing processes and capacity utilization.

Source: <https://www.pharmaceutical-technology.com/analyst-comment/pharma-manufacturing-reconfigurations-cdmos-expansion-opportunities/>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Bora Group Acquires MacroGenics' Manufacturing Operations, Expanding US Biopharmaceutical CDMO Platform

Published May 13, 2026 Manufacturing Chemist USA



OVERVIEW

Bora Group announced the acquisition of MacroGenics' GMP manufacturing and CDMO business for \$122.5 million, which includes a biopharmaceutical drug substance manufacturing facility in Rockville, Maryland. This acquisition significantly boosts Bora's single-use bioreactor capacity to 20,000 liters and strengthens its integrated US biopharmaceutical CDMO platform, aiming for end-to-end development and manufacturing services. A long-term CDMO service agreement with MacroGenics will also ensure continued supply for their internal pipeline, cementing Bora's strategic positioning in the market.

Background

The expansion of the biopharmaceutical market has amplified the complexity and specialization required in drug development and manufacturing. Particularly for biopharmaceutical drug substances (DS) like monoclonal antibodies, substantial capital investment and profound technical expertise are indispensable. Consequently, many biotechnology companies are increasingly concentrating their resources on research and development, opting to outsource manufacturing to specialized Contract Development and Manufacturing Organizations (CDMOs). CDMOs play a pivotal role in accelerating time-to-market and mitigating development risks by offering integrated services from early-stage development to commercial production.

Key Findings / Results

The Taiwan-based Bora Group has announced its acquisition of MacroGenics' GMP manufacturing and CDMO business for \$122.5 million. This strategic purchase encompasses MacroGenics' state-of-the-art biopharmaceutical drug substance manufacturing facility and associated warehousing located in Rockville, Maryland, USA. The Rockville facility is equipped with five 2,000-liter and two 500-liter single-use bioreactors, capable of supporting both commercial and clinical-stage monoclonal antibody programs. This acquisition will significantly augment Bora Group's total biopharmaceutical drug substance manufacturing capacity to 20,000 liters (in single-use bioreactor volume), thereby enhancing its footprint in the U.S. market. Furthermore, Bora Group has entered into a long-term CDMO service agreement with MacroGenics, ensuring a continuous supply for MacroGenics' internal pipeline and facilitating a seamless operational transition post-acquisition.

Technical Significance & Outlook

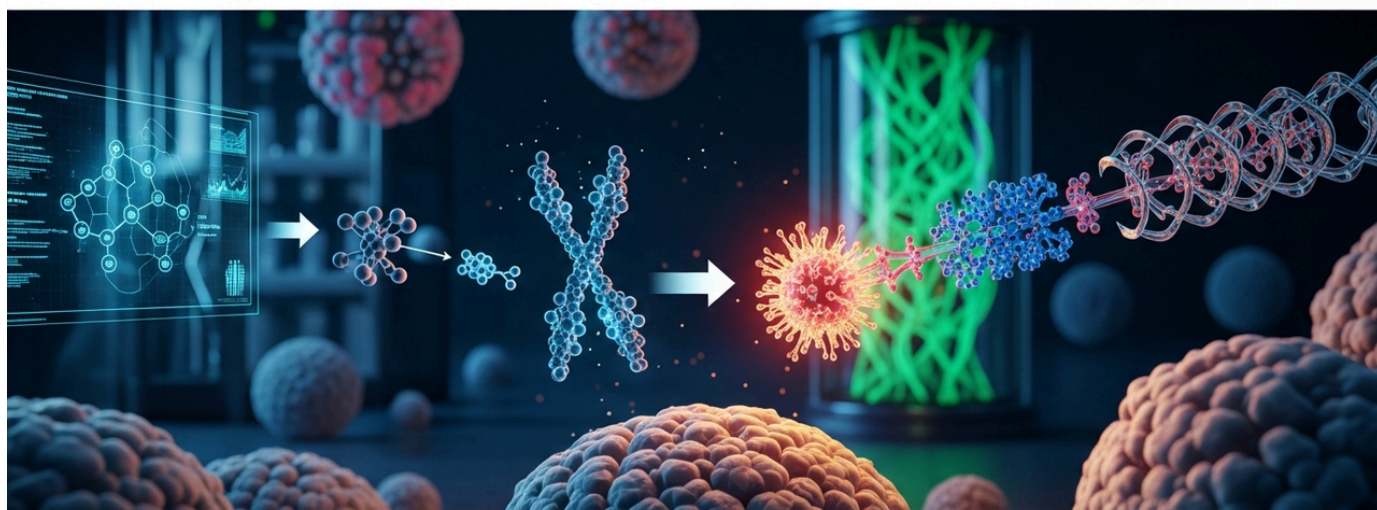
This strategic acquisition underscores Bora Group's ambition to establish an integrated, end-to-end biopharmaceutical CDMO platform within the United States. By combining drug substance (DS) and drug product (DP) capabilities, Bora aims to offer clients seamless services that cover the entire biopharmaceutical development lifecycle with a single partner. This presents a significant advantage for biotechnology companies by simplifying their supply chain and enhancing consistency from development through commercial supply. Through this expanded capacity, Bora Group is positioned to meet the escalating demand for biopharmaceutical manufacturing and handle large-volume commercial and clinical projects. Future challenges include the smooth integration of the acquired facilities, sustained employee engagement, and diligent fulfillment of long-term supply agreements. This move epitomizes the accelerating trend of consolidation and specialization within the global CDMO market, indicating a strategic response to the evolving demands of advanced biopharmaceutical production.

Source: <https://manufacturingchemist.com/bora-group-acquire-macrogenics-manufacturing-operations-cdmo-business>

Collected: May 15, 2026 | Automated Research System (Gemini API)

siRNA Therapeutics: Advancements in Chemical Modification and Targeted Delivery Expand Clinical Horizons Beyond the Liver

Published May 15, 2026 MDPI Global



OVERVIEW

siRNA therapeutics are achieving significant clinical success driven by sophisticated chemical modifications and robust delivery systems. GalNAc conjugates have become the gold standard for liver-targeted therapies, with several drugs like Givosiran gaining approval. Next-generation approaches are expanding beyond the liver, as evidenced by Zilebesiran, an siRNA for hypertension entering Phase 3, demonstrating sustained blood pressure reduction for up to six months post-single dose. Furthermore, novel delivery platforms like C16 conjugates for CNS and TRiM for pulmonary targets are showing promising clinical data, broadening siRNA's reach to neurological and respiratory diseases.

Background

Small interfering RNA (siRNA) molecules hold immense therapeutic potential due to their precise mechanism of gene silencing, wherein they degrade specific messenger RNA (mRNA) to inhibit gene expression. However, early development of siRNA therapeutics was hampered by several formidable challenges, including inherent instability in vivo (leading to rapid enzymatic degradation), potential immunogenicity, and inefficient delivery to target cells. Overcoming these obstacles necessitated significant advancements in chemical modifications and the development of innovative drug delivery systems (DDS). The clinical success of GalNAc (N-acetylgalactosamine) conjugates, specifically engineered for liver-targeted siRNA delivery, has been pivotal in paving the way for broader clinical applications of this modality.

Key Findings / Results

Recent scientific literature comprehensively reviews the evolution and expanding clinical landscape of siRNA therapeutics, highlighting critical progress in both chemical modifications and delivery systems. GalNAc conjugates, designed for hepatocyte-specific siRNA delivery, have established themselves as the 'gold standard' for liver-targeted treatments. This is evidenced by the FDA approval of drugs such as Givosiran for acute hepatic porphyria, Lumasiran for primary hyperoxaluria type 1, and Nedosiran, all demonstrating the technology's maturity and efficacy. These GalNAc-siRNAs offer superior safety profiles and improved patient adherence through subcutaneous administration and reduced dosing frequencies.

Beyond hepatic targeting, the scope of siRNA applications is dramatically expanding. Zilebesiran, an siRNA targeting angiotensinogen for hypertension, has progressed into Phase 3 clinical trials (the ZENITH program). It has shown promising results with sustained blood pressure reduction for up to six months following a single dose, potentially offering a transformative option for chronic hypertension management. Significant strides have also been made in extrahepatic delivery technologies; C16 conjugates are being developed for central nervous system (CNS) disorders, and the TRiM platform for pulmonary diseases is yielding encouraging clinical data. These advancements are expected to extend the therapeutic benefits of siRNA to neurodegenerative conditions like Alzheimer's disease and respiratory ailments such as asthma and idiopathic pulmonary fibrosis. Furthermore, siRNAs targeting 'undruggable' oncogenes like KRAS and those for metabolic dysfunction-associated steatohepatitis (MASH) are actively being explored.

Technical Significance & Outlook

The continuous evolution of siRNA therapeutics is dramatically broadening the spectrum of treatable diseases and holds the promise to revolutionize chronic disease management. The success of GalNAc conjugates has not only set a benchmark for liver-targeted siRNA therapies but also spurred further innovations in DDS and manufacturing. The development of extrahepatic delivery platforms is crucial for extending treatment options to patient populations previously unable to benefit from nucleic acid medicines, potentially leading to breakthroughs in areas with high unmet medical needs. However, achieving efficient and safe extrahepatic delivery for all target organs remains a significant challenge. Additionally, the scalable manufacturing and cost optimization for diverse siRNA chemistries are ongoing hurdles. Continued research and development in this domain are poised to solidify nucleic acid drugs as a dominant modality in the next generation of therapeutics.

Source: <https://www.mdpi.com/1999-4923/18/5/593>

Global and Korean Pharma Intensify Race for Next-Gen Oral Obesity Drugs: GLP-1/GIP Dual Agonists and Microneedle Patches Emerge

Published May 14, 2026 Chosun Biz South Korea



OVERVIEW

The 2026 European Congress on Obesity highlighted intensified global competition in next-generation oral obesity drug development. Viking Therapeutics announced positive Phase 2 results for its oral GLP-1/GIP dual agonist VK2735, showing promising weight loss. Korean companies, including HK inno.N, JW Pharmaceutical, Celltrion, and Daewoong Pharmaceutical, are actively pursuing novel modalities like oral GLP-1s, triple agonists, and microneedle patches, with several candidates in late-stage clinical or preclinical development. This shift indicates a strong industry push towards convenient oral and non-invasive delivery options in a market predominantly served by injectables.

Background

Obesity remains a pervasive global health challenge, and the therapeutic market has seen rapid expansion with the advent of GLP-1 receptor agonists. However, the majority of existing GLP-1 drugs are injectables, presenting challenges in terms of patient convenience and adherence. Consequently, the development of orally administrable GLP-1 agonists, more potent dual or triple agonists, and novel delivery systems for next-generation obesity treatments has become one of the most fiercely contested frontiers in the global pharmaceutical industry. Notably, South Korean pharmaceutical companies are actively entering this global race, pursuing innovative approaches to carve out their market share.

Key Findings / Results

The 2026 European Congress on Obesity, held in Istanbul, Turkey, underscored the burgeoning global competition in the development of next-generation oral obesity drugs. During the congress, Viking Therapeutics announced encouraging Phase 2 clinical trial data for its oral GLP-1/GIP dual agonist, VK2735, which demonstrated an average weight reduction of 12.2%. This promising efficacy positions VK2735 as a notable oral contender potentially comparable to injectable GLP-1 receptor agonists. Incumbent market leaders, Novo Nordisk and Eli Lilly, are simultaneously focusing on weight maintenance strategies and higher-dose options for their GLP-1 drugs to further expand their market dominance.

Korean pharmaceutical companies are also robustly participating in this global endeavor. HK inno.N is developing an oral GLP-1 agonist, JW Pharmaceutical is advancing a triple agonist, Celltrion is working on new obesity treatment candidates, and Daewoong Pharmaceutical is exploring DWRX5003, an obesity treatment candidate utilizing a microneedle patch delivery system. These Korean firms have several drug candidates in late-stage clinical trials or preclinical development, pursuing diverse modalities and delivery methods to establish a competitive edge in the global market.

Technical Significance & Outlook

The industry's pivot towards high-dose oral options, sustained weight maintenance effects, and novel delivery methods such as microneedle patches signifies the maturation and diversification of the obesity pharmacotherapy market. Oral formulations and non-invasive delivery systems promise substantial improvements in patient convenience and adherence, potentially broadening market access to patient segments averse to injections. The aggressive entry of Korean companies highlights a growing wave of innovation from the Asian region, bolstering global competitiveness in this therapeutic area. However, the long-term safety, efficacy, and patient adherence for these oral and novel delivery systems require extensive validation in large-scale Phase 3 trials. Furthermore, the sustained global demand for GLP-1 drugs continues to pose challenges in terms of manufacturing capacity and supply chain resilience, necessitating ongoing strategic investments and innovation.

Source: <https://biz.chosun.com/en/en-science/2026/05/15/QCDF4FSCFRH7NLMKF7J5WRPLXI/>

Collected: May 15, 2026 | Automated Research System (Gemini API)

CPHI Japan 2026 Highlights Technical Challenges in Peptide Development: GLP-1 Demand Drives Focus on Sustainable Manufacturing

Published May 14, 2026 AmbioPharm Japan



OVERVIEW

The CPHI Japan 2026 conference underscored the increasing complexity of peptide drug development and the rising technical expectations for CDMOs. Global demand for GLP-1 agonists is creating a significant bottleneck in peptide manufacturing capacity, impeding other programs. Amid pressure to accelerate early development, Japanese companies are particularly committed to greener peptide synthesis, aiming to reduce reliance on hazardous solvents in solid-phase peptide synthesis (SPPS). CDMOs are thus challenged to provide flexible synthesis options, efficient solvent strategies, and reliable scale-up pathways for increasingly complex peptide sequences.

Background

Peptide therapeutics are garnering significant attention across a broad spectrum of disease areas, including oncology, metabolic disorders, and autoimmune diseases, owing to their high specificity and diverse pharmacological activities. The recent success of GLP-1 receptor agonists, which have significantly impacted the market, has dramatically accelerated investment and development in peptide drugs. However, peptide synthesis processes inherently pose challenges related to manufacturing capacity and technical complexities, stemming from their intricate molecular structures and stringent purity requirements. Against this backdrop, the CPHI Japan 2026 conference provided a platform to discuss the technical pressures surrounding peptide development and the escalating expectations placed on Contract Development and Manufacturing Organizations (CDMOs).

Key Findings / Results

According to reports from the CPHI Japan 2026 conference, peptide development is becoming increasingly intricate, demanding higher technical expertise and manufacturing flexibility from CDMOs. A primary concern highlighted was the unprecedented global surge in demand for GLP-1 agonists, which is absorbing a substantial portion of existing peptide manufacturing capacity. This situation makes it challenging for other therapeutic peptide programs to secure necessary reactor time and maintain their development timelines. Furthermore, pharmaceutical companies are under intense pressure to accelerate development, particularly to move promising candidates into Phase 1 clinical trials more swiftly.

A notable trend is the strengthened commitment of Japanese companies towards more environmentally sustainable peptide manufacturing methods. Traditional solid-phase peptide synthesis (SPPS) often involves the extensive use of environmentally hazardous solvents like dimethylformamide (DMF) and N-methyl-2-pyrrolidone (NMP). Japanese firms are focusing on reducing reliance on these solvents and implementing more efficient hybrid synthesis approaches and green chemistry principles that optimize the balance between yield, sustainability, and scalability. CDMOs are now expected to provide flexible synthesis options capable of handling diverse peptide sequences, efficient solvent strategies, and reliable scale-up pathways for increasingly complex peptides.

Technical Significance & Outlook

The bottleneck in peptide manufacturing capacity, driven by the surging demand for GLP-1 agonists, has profound implications for the entire global pharmaceutical ecosystem. It is becoming imperative for pharmaceutical companies to judiciously select CDMO partners based on their specialized expertise, agility, and commitment to sustainable manufacturing practices. This scenario provides a strong incentive for CDMOs to accelerate investments in flexible, environmentally conscious, and scalable synthesis capabilities. CDMOs that possess expertise in various peptide types (e.g., synthetic NECs, longer sequences) and adopt greener chemical processes will gain a competitive advantage. Future challenges include addressing the global capacity shortage caused by GLP-1 demand and the necessity for continuous, substantial investment in sustainable and scalable manufacturing technologies, which are integral to shaping the future of peptide therapeutics.

Source: <https://www.ambiopharm.com/articles/technical-pressures-shaping-peptide-development-insights-from-cphi-japan-2026/>

Amgen Advances MariTide Obesity Drug into Phase 3 MARITIME Program, Targeting Infrequent Dosing for Market Differentiation

Published May 12, 2026 Sahm Capital USA



OVERVIEW

Amgen has advanced maridebart cafraglutide (MariTide), its investigational obesity treatment, into the Phase 3 MARITIME development program. MariTide is an antibody-peptide conjugate designed with a dual mechanism, simultaneously blocking GIP receptors and activating the GLP-1 pathway, based on insights from human genetic studies. A key differentiator is its potential for monthly or less frequent dosing, which could offer a significant advantage in the competitive obesity treatment landscape. This progression to Phase 3 marks a crucial step toward the commercialization of this long-acting therapeutic.

Background

Obesity constitutes a global public health crisis, and its therapeutic market has expanded rapidly with the success of GLP-1 receptor agonists. However, most existing GLP-1-based treatments necessitate relatively frequent injections, often weekly or daily, which can pose challenges to patient adherence. Consequently, there is a growing demand for more efficacious, long-acting medications that can reduce dosing frequency. Amgen, leveraging a unique approach rooted in genetic research, is actively developing a therapeutic candidate to address this unmet medical need in the obesity landscape.

Key Findings / Results

Amgen has announced the advancement of maridebart cafraglutide (MariTide), its investigational obesity drug, into the Phase 3 MARITIME development program. MariTide is an innovative antibody-peptide conjugate engineered with a dual mechanism of action: it simultaneously activates the GLP-1 (Glucagon-Like Peptide-1) pathway while blocking GIP (Glucose-dependent Insulinotropic Polypeptide) receptor signaling. This dual-action approach is informed by extensive human genetic research conducted by Amgen's subsidiary, deCODE Genetics, and is expected to leverage multiple metabolic pathways for potentially superior weight loss and other metabolic improvements.

The most compelling differentiator for MariTide is its extended duration of action. Amgen indicates the potential for monthly or less frequent dosing, which would represent a substantial improvement in patient convenience compared to current obesity treatments. This reduced dosing frequency is a potent element that could provide MariTide with a distinct competitive edge in the increasingly crowded obesity therapeutic market. The transition to a Phase 3 program signifies a critical de-risking step towards the commercialization of this long-acting treatment, reflecting Amgen's ambition to establish leadership in this high-demand market.

Technical Significance & Outlook

The progression of MariTide into Phase 3 has the potential to significantly impact the landscape of obesity treatment. Its long-acting formulation, enabling monthly or less frequent administration, offers substantial benefits for both healthcare providers and patients by enhancing adherence and making sustained treatment more manageable. Manufacturing such complex antibody-peptide conjugates will demand highly specialized bioprocessing capabilities, testing Amgen's expertise in its production supply chain. Should MariTide demonstrate a favorable safety and efficacy profile in its large-scale Phase 3 program, Amgen could effectively compete in the high-demand obesity market and capture a significant market share. Future focus will be on the Phase 3 trial outcomes, subsequent regulatory approval pathways, and long-term real-world patient outcome data.

Source: <https://www.sahmcapital.com/news/content/amgen-advances-maritide-obesity-drug-into-phase-3-maritime-program-2026-05-12>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Zealand Pharma Advances Obesity Pipeline with Phase 3 Progress, Leveraging Roche and Boehringer Ingelheim Partnerships

Published May 11, 2026 WhaleWisdom Global



OVERVIEW

Zealand Pharma, in partnership with Roche, is progressing its obesity drug candidate petrelintide into Phase 3 trials following favorable Phase 2 data on weight loss and tolerability. Separately, Boehringer Ingelheim announced robust Phase 3 results from its SYNCHRONIZE-1 trial for survodutide, a GLP-1/glucagon dual agonist licensed from Zealand Pharma. These clinical milestones underscore Zealand Pharma's critical role in obesity and metabolic disease drug development, highlighting its capacity to generate value through both internal pipeline advancements and strategic partnerships.

Background

Obesity and related metabolic diseases represent a growing global health crisis, necessitating the urgent development of effective and safe new treatments. Particular interest is focused on multi-agonist and peptide-based drugs that offer not only weight reduction but also broader metabolic improvements, potentially through mechanisms distinct from existing therapies. Zealand Pharma is a key player in this arena, with multiple candidates in development, systematically advancing its pipeline through late-stage clinical development via strategic collaborations with major pharmaceutical companies.

Key Findings / Results

Zealand Pharma, a Danish biopharmaceutical company, announced the progression of its obesity drug candidate, petrelintide, into Phase 3 clinical trials under a partnership with Roche. This advancement follows positive Phase 2 data demonstrating favorable weight loss and tolerability. While the precise mechanism of petrelintide has not been fully disclosed in this report, it is understood to be a novel peptide-based therapeutic. Concurrently, Boehringer Ingelheim reported robust Phase 3 results from its SYNCHRONIZE-1 trial for survodutide, a GLP-1/glucagon dual agonist initially licensed from Zealand Pharma. Surodutide is designed to act on both GLP-1 and glucagon receptors, aiming for superior weight loss and more comprehensive metabolic improvements compared to single-mechanism agents.

These two significant clinical milestones distinctly illustrate both the progress within Zealand Pharma's internal pipeline and the company's capability to generate substantial value through strategic partnerships with large pharmaceutical entities. Zealand Pharma continues to play a pivotal role in the development of innovative drugs for obesity and metabolic disorders.

Technical Significance & Outlook

The clinical success of petrelintide and survodutide stands to significantly bolster Zealand Pharma's market position and future revenue potential. Dual agonists like survodutide, by targeting multiple metabolic pathways simultaneously, are anticipated to yield greater weight loss and improved metabolic control compared to single-target GLP-1 agonists or GLP-1/GIP dual agonists. Should these candidates successfully navigate late-stage development and commercialization through their respective partnerships, Zealand Pharma is poised to become a significant player in the highly competitive obesity treatment market. However, more detailed data on petrelintide's specific mechanism and its differentiation from other treatments are awaited. The long-term success of these strategic partnerships is paramount for Zealand Pharma's overall valuation and sustained growth in the dynamic metabolic disease landscape.

Source: #

Collected: May 15, 2026 | Automated Research System (Gemini API)

GLP-1 Drug Manufacturing: Global Capacity Expansion and Tech Transfer Accelerate to Meet Soaring Demand

Published May 10, 2026 IntuitionLabs Global



OVERVIEW

The unprecedented surge in demand for GLP-1 therapeutics is driving a rapid global expansion of manufacturing capacity and technology transfer strategies in the pharmaceutical industry. Novo Nordisk is investing \$4.1 billion in new facilities and boosting fill-and-finish capabilities through its \$16.5 billion acquisition of Catalent sites. Eli Lilly is similarly investing over \$15 billion in new plants across multiple U.S. states. The complex and costly manufacturing of GLP-1 peptides necessitates specialized CDMO expertise, with increasing investment in green chemistry and solvent recovery systems to enhance sustainability in solid-phase peptide synthesis (SPPS).

Background

GLP-1 receptor agonists for type 2 diabetes and obesity have ignited an unparalleled global demand due to their remarkable clinical efficacy. While sales of blockbuster products like Wegovy (semaglutide) and Zepbound (tirzepatide) skyrocket, their complex peptide structures and stringent manufacturing requirements are straining global supply capabilities. To address this supply-demand gap, major pharmaceutical companies are drastically expanding their in-house manufacturing capacity and accelerating technology transfer through partnerships and acquisitions with specialized Contract Development and Manufacturing Organizations (CDMOs). High-volume production of peptides, in particular, demands advanced technologies and significant capital investment.

Key Findings / Results

In response to the overwhelming demand for GLP-1 drugs, leading global pharmaceutical companies are initiating aggressive facility expansion programs. Novo Nordisk is investing \$4.1 billion in a sprawling new manufacturing plant in North Carolina, slated to begin producing Wegovy and Ozempic by 2029. Furthermore, the company significantly augmented its GLP-1 injectable fill-and-finish capacity through a \$16.5 billion acquisition of three Catalent sites, integrating them into its manufacturing network. Concurrently, Eli Lilly is investing over \$15 billion in new facilities across Indiana, Wisconsin, Pennsylvania, and Alabama to bolster its manufacturing capabilities. These investments are proceeding in parallel with growing concerns about the environmental footprint of GLP-1 peptide manufacturing, especially the solid-phase peptide synthesis (SPPS) process, which typically generates substantial waste. Consequently, the CDMO sector is accelerating investments in greener chemistry processes and solvent recovery systems to enhance sustainability.

Technical Significance & Outlook

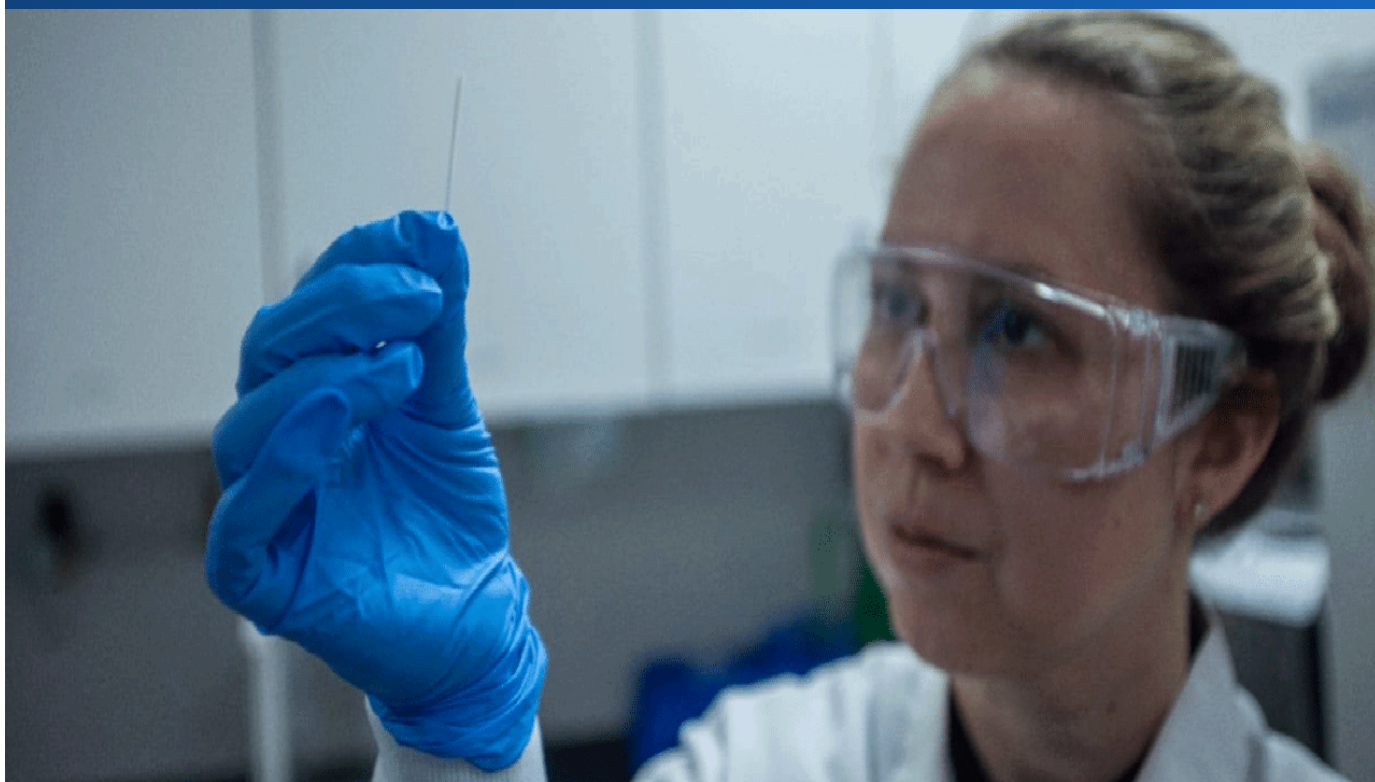
The explosive demand for GLP-1 drugs has created immense market opportunities for specialized peptide CDMOs, with the GLP-1 peptide CDMO market projected for significant annual growth. The imperative for advanced, scalable, and environmentally friendly manufacturing processes is driving strong innovation and investment within the CDMO sector. Pharmaceutical companies are increasingly outsourcing GLP-1 drug manufacturing to CDMOs to manage technical complexities, substantial capital requirements, and specialized expertise. In the future, CDMOs capable of providing sustainable and efficient large-scale peptide synthesis solutions will hold a strong competitive advantage. The article points to a potential shift from traditional batch processing to more advanced continuous flow synthesis as a key differentiator. Ensuring global manufacturing capacity while addressing environmental sustainability concerns will be critical for the sustained growth of the GLP-1 drug market.

Source: <https://intuitionlabs.ai/articles/glp-1-drug-manufacturing-cdmo-tech-transfer>

Collected: May 15, 2026 | Automated Research System (Gemini API)

The Modern CDMO: A Strategic Blueprint for Pharmaceutical Leaders in a Complex Era

Published May 11, 2026 Agnopharma Global



OVERVIEW

This guide outlines the evolution of CDMOs from traditional CMOs, emphasizing their indispensable role in contemporary drug development. Modern CDMOs offer integrated solutions from process development to commercial manufacturing, accommodating diverse modalities like small molecules, biologics, mRNA, cell/gene therapies, and HPAPIs. Key trends include expanding advanced therapy capabilities, diversifying regional supply chains, and prioritizing sustainability with green chemistry. Partnering with CDMOs enables pharmaceutical companies to manage capital efficiency, mitigate risks, and access specialized infrastructure and regulatory support.

Background

Pharmaceutical development has become exponentially more complex due to advancements in molecular biology, the emergence of novel modalities, and an increasingly intricate regulatory landscape. To navigate these changes, pharmaceutical companies require strategic partners capable of providing expertise and capacity across the entire drug development lifecycle. While Contract Manufacturing Organizations (CMOs) were historically confined to manufacturing services, modern Contract Development and Manufacturing Organizations (CDMOs) have evolved into integrated solution providers, supporting the entire development process from early-stage research and development (R&D) through commercial production. This evolution has been significantly accelerated by rising infrastructure costs and the critical need for specialized expertise.

Key Findings / Results

Contemporary CDMOs deliver comprehensive services that extend beyond small molecules to encompass diverse modalities, including biologics, mRNA, cell therapies, gene therapies, and highly potent active pharmaceutical ingredients (HPAPIs). Their service offerings span process development, analytical development, clinical supply manufacturing, and ultimate commercial-scale production. A primary function of CDMOs is to provide state-of-the-art manufacturing facilities, specialized technology platforms (e.g., viral vectors, plasmid DNA manufacturing), and profound regulatory expertise—resources that are often difficult for pharmaceutical companies to maintain in-house. Furthermore, CDMOs are increasingly focusing on the development and manufacturing of specialized drug delivery systems, such as pre-filled syringes and auto-injectors.

Key trends shaping this sector include:

- **Expansion of Advanced Therapy Capabilities:** There is rapid expansion in manufacturing capacity for complex new modalities, such as cell and gene therapies and mRNA-based therapeutics, including specialized production of viral vectors and plasmid DNA.

- **Regional Diversification of Supply Chains:** In response to geopolitical risks and supply chain vulnerabilities, manufacturing footprints are being geographically diversified. This strengthens production capabilities across multiple regions, including North America, Europe, and Asia-Pacific.
- **Focus on Sustainability and Green Chemistry:** A strong emphasis is placed on reducing environmental impact and adopting sustainable manufacturing practices, with principles of green chemistry and waste reduction technologies being actively integrated into production processes.

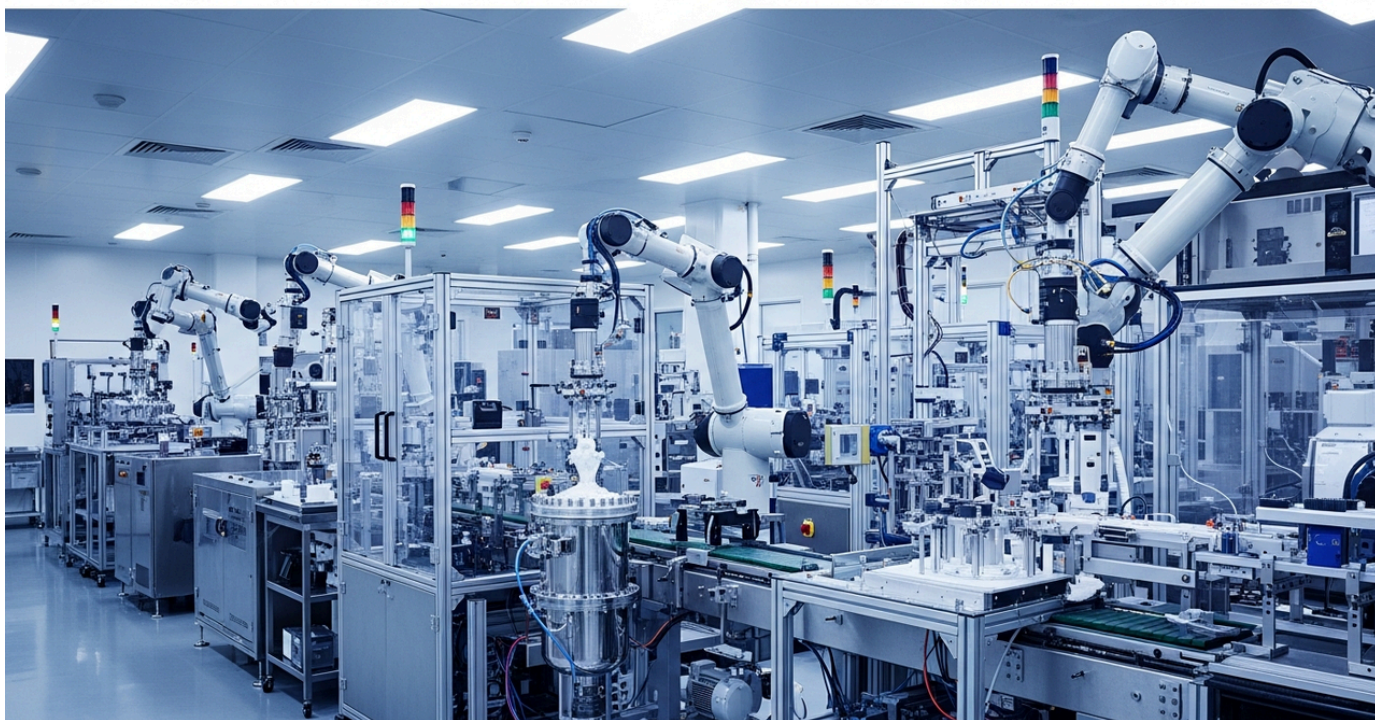
Technical Significance & Outlook

CDMOs have become indispensable strategic partners for pharmaceutical companies, helping to shorten time-to-market, manage development costs, and navigate complex regulatory requirements. By collaborating with CDMOs, pharmaceutical companies can avoid substantial capital expenditures, mitigate risks associated with underutilized facilities, and gain access to specialized infrastructure and regulatory support. This effectively converts fixed costs into variable costs, enhancing capital efficiency. The CDMO market is projected to continue its growth and consolidation, driven by the emergence of diverse therapeutic platforms and increasing global demand for pharmaceuticals. CDMOs will play an ever more critical role in ensuring the resilience and efficiency of the global supply chain, ultimately facilitating the delivery of innovative medicines to patients.

Source: <https://agnopharma.com/blog/the-modern-cdmo/>

Small Molecule Drug CDMO Market Sees Strong Growth, Driven by HPAPI and Continuous Manufacturing; WuXi AppTec Leads

Published May 11, 2026 OpenPR Global



OVERVIEW

The small molecule drug CDMO market is experiencing robust growth, fueled by increased outsourcing from pharmaceutical and biotech companies. Key drivers include investments in specialized facilities for highly potent active pharmaceutical ingredients (HPAPI) and technological advancements in continuous manufacturing and process optimization. The highly competitive market sees CDMOs enhancing advanced synthesis techniques and HPAPI capabilities to secure long-term contracts. East China, with its strong pharmaceutical infrastructure and government support, shows particular regional growth in this sector.

Background

Small molecule drugs continue to play a pivotal role in modern therapeutics, addressing a wide range of disease areas. However, their development and manufacturing necessitate complex synthesis pathways, stringent quality control, and rigorous regulatory compliance. To navigate these challenges, many pharmaceutical and biotechnology companies are increasingly outsourcing to specialized Contract Development and Manufacturing Organizations (CDMOs). The handling of highly potent active pharmaceutical ingredients (HPAPIs), in particular, requires advanced containment technologies and specialized expertise, thereby accelerating the growth of the CDMO market.

Key Findings / Results

The global small molecule drug CDMO market is experiencing robust growth, propelled by the increasing demand for outsourced pharmaceutical development and manufacturing services from pharmaceutical and biotechnology companies. Several key factors underpin this market expansion. Firstly, there is a rising adoption of highly potent active pharmaceutical ingredients (HPAPIs) in oncology and other specialized therapeutics, which mandates significant investments in specialized manufacturing facilities and safe handling technologies. Secondly, technological advancements in innovative manufacturing techniques such as continuous manufacturing and process optimization are enabling greater efficiency and cost reduction. These innovations allow CDMOs to offer faster and more cost-effective services.

The market is highly competitive, with major players like WuXi AppTec expanding their capabilities. CDMOs are strategically enhancing their advanced synthesis technologies, HPAPI manufacturing capabilities, and adherence to stringent regulatory compliance and quality assurance systems to secure long-term contracts with clients. Regionally, East China is demonstrating particularly strong growth in this sector, supported by its robust pharmaceutical infrastructure and strong governmental backing.

Technical Significance & Outlook

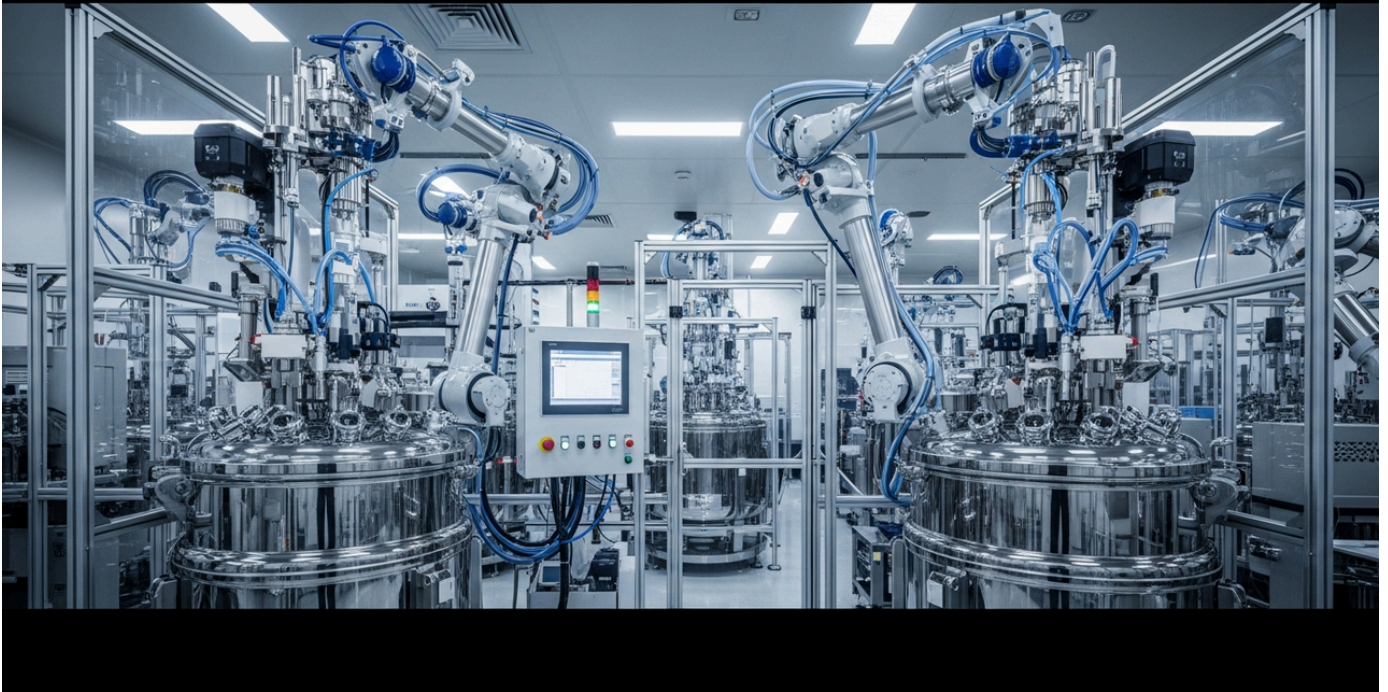
The sustained growth of the small molecule CDMO market reflects a strong industry need for efficient, specialized, and compliant manufacturing partners, especially for complex and highly potent compounds. This trend will further stimulate investments in advanced facilities and cutting-edge technologies within the CDMO sector, enabling pharmaceutical companies to focus on their core R&D activities and bring innovative medicines to market more swiftly. CDMOs must differentiate themselves through superior advanced synthesis techniques, robust HPAPI capabilities, and unwavering adherence to regulatory compliance. Future challenges include maintaining continuous technological innovation and investing in compliance amidst fierce competition, as well as ensuring the resilience of global supply chains. The adoption of technologies like continuous manufacturing and flow chemistry will be crucial differentiators in the future market competition.

Source: <https://www.openpr.com/news/4509445/small-molecule-drug-cdmo-market-growing-strong-with-wuxi-apptec>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Divi's Labs: The 'TSMC of Pharma' for Peptides? GLP-1 Demand Elevates Manufacturing to Strategic Imperative

Published May 14, 2026 Antifragile Thinking Global



OVERVIEW

The surging global demand for GLP-1 therapeutics has transformed peptide manufacturing into one of the most strategically critical areas within the CDMO sector. India's Divi's Labs stands out as a key player, steadily expanding its peptide manufacturing capabilities through investments in both solid-phase (SPPS) and liquid-phase peptide synthesis (LPPS). Company management indicates multiple client projects are progressing across all clinical stages. With stringent purity standards and complex scale-up requirements for GLP-1 peptides, Divi's Labs is positioned to play a 'TSMC-like' role in enabling commercial-scale production.

Background

In the semiconductor industry, TSMC (Taiwan Semiconductor Manufacturing Company) has established itself as an indispensable enabler of innovation for countless technology companies, thanks to its advanced technical prowess and massive manufacturing capacity. Similarly, within the pharmaceutical industry, particularly for complex biologics and molecules with specialized activities, certain Contract Development and Manufacturing Organizations (CDMOs) are gaining immense strategic importance. The recent explosive demand for GLP-1 (Glucagon-Like Peptide-1) receptor agonists has elevated peptide manufacturing into a particularly critical area of CDMO services. These peptides demand high purity standards and complex scale-up processes, making their large-scale production exceptionally challenging.

Key Findings / Results

Divi's Labs, a leading active pharmaceutical ingredient (API) manufacturer based in India, is gaining significant attention for its steady expansion of complex peptide manufacturing capabilities, including those for GLP-1 agonists. The company has strategically invested in both solid-phase peptide synthesis (SPPS) and liquid-phase peptide synthesis (LPPS), the primary methods for peptide production, thereby building capabilities to meet diverse client needs. Management at Divi's Labs indicates that multiple client projects are currently progressing through all clinical development stages (Phase 1, Phase 2, and Phase 3) at its facilities. This signifies the company's comprehensive ability to support the entire lifecycle of peptide manufacturing, from early-stage research and development to commercial production.

The article draws an analogy between Divi's Labs and "the TSMC of Pharma," suggesting its strategic importance. This reflects the current reality that globally, only a limited number of companies can reliably manufacture complex peptides like GLP-1 at a commercial scale, meeting stringent purity standards and complex scale-up requirements. It underscores that Divi's Labs' technical expertise and manufacturing capacity are essential elements in enabling the market supply of blockbuster drugs such as GLP-1 agonists.

Technical Significance & Outlook

The potential for Divi's Labs to be positioned as the "TSMC of Pharma" highlights the critical role of highly specialized, large-scale CDMOs in peptide manufacturing. The success of GLP-1 agonists points to significant entry barriers in this field, requiring substantial capital and specialized expertise, potentially leading to a market structure where a few CDMOs hold the key to global supply. For drug development companies, this means securing a reliable peptide manufacturing partner is paramount to the success of their pipelines.

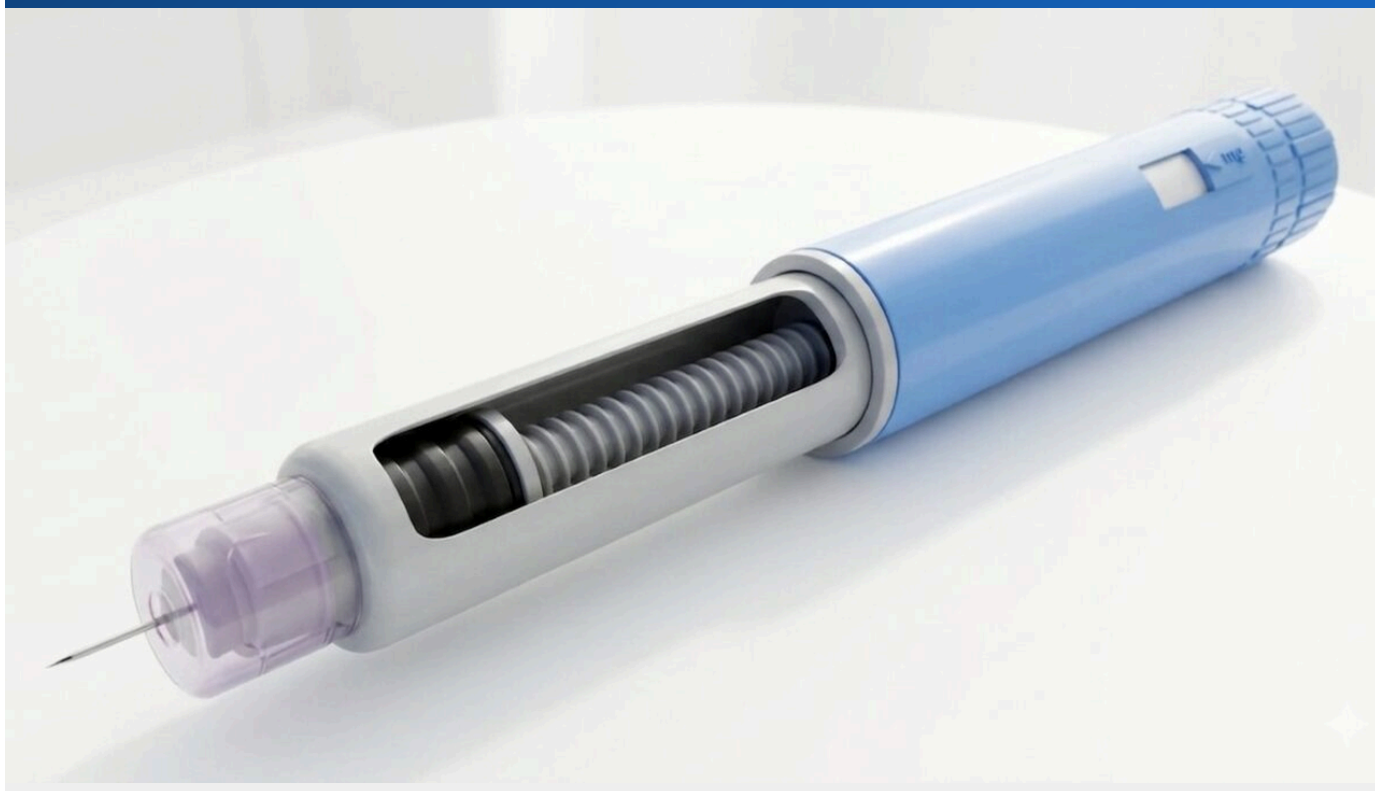
In the long term, if the increase in production capacity in this sector outpaces the growth in demand for GLP-1 drugs, it could lead to price competition, a trend observed in other strategically critical industries like semiconductors. However, in the short term, companies like Divi's Labs, with their specialized capabilities and established infrastructure, are expected to continue enjoying high growth and strategic value for several years. As peptide therapeutics become more diverse and complex, Divi's technical and manufacturing capabilities are anticipated to become increasingly indispensable components within the pharmaceutical innovation supply chain.

Source: <https://antifragilethinking.substack.com/p/divis-labs-the-tsmc-of-pharma>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Novo Nordisk's CagriSema Achieves Over 22% Weight Loss in Phase 3 Trials: Synergistic Benefits of GLP-1 and Amylin Analog

Published May 11, 2026 Life Science Daily News Global



OVERVIEW

Novo Nordisk's CagriSema, a combination therapy featuring a GLP-1 receptor agonist and the amylin analog cagrilintide, demonstrated over 22% weight reduction in Phase 3 trials. Specifically, the REDEFINE 4 study showed a 23.0% weight loss at 84 weeks, rivaling Eli Lilly's tirzepatide. CagriSema also achieved significant weight loss in type 2 diabetes patients, prompting Novo Nordisk to initiate a Phase 3 trial for a higher-dose formulation. These results highlight the additive benefits of the amylin mechanism, offering a distinct therapeutic profile.

Background

Obesity is a global pandemic, elevating the risk for numerous associated conditions, including cardiovascular disease, type 2 diabetes, and certain cancers. In recent years, GLP-1 (Glucagon-Like Peptide-1) receptor agonists have profoundly reshaped the landscape of obesity treatment due to their powerful weight-loss efficacy. However, to achieve even greater effectiveness and more comprehensive metabolic improvements, research and development efforts are increasingly focused on combination therapies and multi-agonists that extend beyond GLP-1 monotherapy. Among these, the combination of a GLP-1 agonist with an amylin analog has garnered attention for its potential to synergistically enhance therapeutic effects.

Key Findings / Results

Novo Nordisk has released Phase 3 clinical trial data for CagriSema, a combination obesity treatment comprising semaglutide, a GLP-1 receptor agonist, and cagrilintide, an amylin analog. The data reveal that CagriSema achieves a remarkable weight reduction of over 22%. Specifically, the REDEFINE 4 trial reported an average weight loss of 23.0% over an 84-week treatment period, which could be comparable to or even surpass the efficacy of Eli Lilly's innovative GLP-1/GIP dual agonist, tirzepatide (Zepbound).

Beyond its efficacy in obese patients, CagriSema also demonstrated significant weight loss and improvements in glycemic control in obese patients with co-morbid type 2 diabetes, as shown in the REDEFINE 2 trial. Bolstered by these results, Novo Nordisk plans to initiate a Phase 3 trial for a higher-dose formulation of CagriSema in the latter half of 2026, aiming to explore its maximal weight-reducing potential. The success of this combination therapy clearly underscores the additive benefits of the amylin mechanism, which are not observed with GLP-1 monotherapy, and highlights the advantages of targeting multiple hormonal pathways.

Technical Significance & Outlook

The potent weight loss demonstrated by CagriSema in Phase 3 data positions it as a formidable competitor in the rapidly expanding obesity treatment market. Its potential to show efficacy comparable to or even exceeding existing market leaders like tirzepatide means CagriSema could offer a new and highly effective treatment option for patients with obesity. The continued development of a higher-dose formulation reflects Novo Nordisk's commitment to maximizing its market potential. The dual mechanism of GLP-1 and amylin analog will likely differentiate CagriSema from competitors by providing an additive therapeutic profile that extends beyond mere weight reduction, possibly including different metabolic improvements and mitigating weight regain post-loss. Future challenges include the long-term safety profile of the combination therapy and ongoing monitoring for patient adherence. The introduction of CagriSema is poised to further elevate the standard of obesity care and pave the way for more personalized treatment strategies.

Source: <https://lifesciencedaily.news/cagrisema-the-next-big-obesity-drug-what-the-phase-3-data-shows/>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Precision Peptide Company (BPC) Pioneers Advanced Peptide Manufacturing with Continuous Flow Synthesis and AI Integration to Meet GLP-1 Demand

Published May 13, 2026 Bitget アイルランド

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of LALIGA in EASTERN, SEA, and LATAM*

OVERVIEW

Precision Peptide Company Inc. (BPC) is emerging as a critical CDMO partner for GLP-1 agonists, oncology vaccines, and targeted radiopharmaceuticals. Their proprietary "Flow-Peptide" continuous flow synthesis technology significantly reduces production times compared to traditional batch methods. BPC is investing \$500 million in a new "Smart Bio Factory" in Ireland, aiming for fully automated peptide production. Strategic collaborations with AI companies for generative protein design further highlight BPC's advanced strategy in both manufacturing and discovery, positioning it to address the escalating global demand for peptides.

IN DEPTH

Background

Peptide therapeutics are garnering significant attention across a broad range of treatment areas, including cancer, metabolic diseases, and infectious diseases, owing to their high efficacy and specificity. The global demand for therapeutic peptides has surged dramatically, particularly with the advent of blockbuster drugs like GLP-1 (Glucagon-Like Peptide-1) agonists. However, peptide manufacturing presents considerable challenges, including complex synthesis pathways, stringent quality control requirements, and difficulties in large-scale production. To address these issues, establishing innovative manufacturing technologies and efficient supply chains has become an urgent imperative.

Key Findings / Results

Precision Peptide Company Inc. (BPC) has rapidly grown into a crucial Contract Development and Manufacturing Organization (CDMO) partner for therapeutic peptides, including GLP-1 agonists for metabolic diseases (obesity and diabetes), oncology vaccines, and targeted radiopharmaceuticals. A key technological differentiator for BPC is its proprietary "Flow-Peptide" continuous flow synthesis technology. This advanced method significantly reduces production times and dramatically enhances manufacturing efficiency compared to conventional batch processing. BPC emphasizes scalability through its modular "Nexus" synthesis units, enabling rapid capacity expansion, particularly vital in high-demand markets like GLP-1 where supply constraints are common.

Furthermore, BPC announced a \$500 million investment in a new "Smart Bio Factory" in Ireland, aiming for fully automated peptide production. This facility is designed to advance autonomy and digitalization in manufacturing processes, further improving production efficiency and quality. BPC has also established strategic partnerships with AI companies for generative protein design, demonstrating its forward-thinking approach not only in manufacturing but also in early-stage drug discovery processes.

Technical Significance & Outlook

BPC's "Flow-Peptide" technology and its investment in the future "Smart Bio Factory" will significantly differentiate the company from competitors by offering superior speed, efficiency, and potentially lower costs compared to traditional peptide manufacturing. Continuous flow synthesis and autonomous manufacturing processes are essential technologies for the cost-effective mass production of peptides, especially those experiencing surging demand like GLP-1s. The integration of AI in generative protein design offers a competitive advantage in early molecular discovery, potentially contributing to the development of more effective novel peptide therapeutics. Future challenges include the successful implementation and validation of the "Smart Bio Factory" and continuous adaptation to evolving market needs and regulatory requirements. BPC's pioneering initiatives are expected to play a crucial role in shaping the future of peptide manufacturing technology and accelerating responses to unmet medical needs.

Source: <https://www.bitget.com/stock/cse-bpc/what-is>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Eli Lilly's Oral Orforglipron Effective in Older Adults with Obesity, Receives FDA Approval as Non-Peptide GLP-1 Offering Dosing Flexibility

Published May 12, 2026 Medscape USA



OVERVIEW

Eli Lilly's once-daily oral GLP-1 receptor agonist, orforglipron (Foundayo), demonstrated clinically significant weight loss and a favorable safety profile in obese adults aged 65 and older, similar to younger populations. This post-hoc analysis from the Phase 3 ATTAIN program addresses a critical data gap in GLP-1 use among the elderly. As a non-peptide oral tablet, orforglipron offers a significant advantage by eliminating the fasting restrictions typically associated with previous oral GLP-1 therapies, leading to its U.S. FDA approval for chronic weight management in April 2026.

Background

Obesity prevalence increases with age, posing elevated risks for various health complications such as diabetes, cardiovascular disease, and joint disorders even in older adults. However, clinical trials for obesity medications have often underrepresented the elderly population, leading to a paucity of data regarding safety and efficacy in this demographic. Furthermore, previous oral formulations of GLP-1 (Glucagon-Like Peptide-1) receptor agonists sometimes necessitated strict fasting restrictions to maximize absorption, thereby impeding patient convenience and adherence. Against this backdrop, there has been a growing demand for effective and user-friendly oral obesity treatments suitable for older individuals.

Key Findings / Results

Eli Lilly has announced that its once-daily oral GLP-1 receptor agonist, orforglipron (marketed as Foundayo), demonstrated clinically significant weight loss in obese adults aged 65 and older, exhibiting a safety profile comparable to that observed in younger patients. This crucial finding stems from a post-hoc analysis of the Phase 3 ATTAIN clinical trial program, effectively addressing a longstanding data gap regarding GLP-1 therapy in the elderly population with obesity. Orforglipron possesses a particularly noteworthy characteristic in its pharmacology: it is a non-peptide oral tablet, distinguishing it from peptide-based GLP-1 drugs. This property offers a substantial advantage by circumventing the rigorous fasting restrictions often associated with conventional oral GLP-1 therapies. The U.S. FDA granted approval for orforglipron for chronic weight management in April 2026, underscoring its anticipated convenience and efficacy.

Technical Significance & Outlook

Orforglipron's FDA approval and strong efficacy and safety data in older adults significantly expand its potential patient population and bolster its commercial prospects. The fact that it is a non-peptide oral tablet profoundly enhances patient convenience, which could consequently boost adherence rates and facilitate broader market adoption. This provides a clear competitive edge over injectable formulations and oral therapies requiring fasting restrictions. Its demonstrated effectiveness in the elderly demographic offers specific clinical utility for an underserved patient segment where treatment options have historically been limited. Future challenges include the ongoing collection of real-world data on long-term safety and efficacy across diverse elderly populations. Orforglipron's introduction marks a significant milestone in widening accessibility and options for obesity treatment, contributing to the advancement of patient-centric care.

Source: <https://www.medscape.com/viewarticle/oral-orforglipron-effective-older-adults-obesity-2026a1000fci>

Collected: May 15, 2026 | Automated Research System (Gemini API)

EktaH Reveals Promising Early-Phase Data for Novel Obesity Drug NKS-3, Targeting Fat Loss with Muscle Retention

Published May 12, 2026 European Biotechnology Global



OVERVIEW

EktaH has released early clinical trial data for its novel obesity drug candidate, NKS-3, demonstrating promising results in both fat reduction and muscle preservation. Preclinical mouse data indicated that NKS-3 significantly inhibited weight regain following semaglutide treatment and effectively maintained lean body mass, suggesting its potential as a maintenance therapy. This strategy focuses on addressing the common issue of muscle loss during rapid weight reduction. EktaH plans to advance the program into Phase 2 trials in the first half of next year.

IN DEPTH

Background

Obesity therapeutics, particularly GLP-1 (Glucagon-Like Peptide-1) receptor agonists, have significantly impacted the market with their potent weight-reducing effects. However, rapid weight loss induced by these agents often leads to a reduction not only in fat mass but also in lean body mass (muscle), which can have long-term detrimental effects on patient health and metabolic function. Consequently, there is a growing demand for more sophisticated, next-generation obesity treatments that can effectively preserve muscle mass while simultaneously promoting weight loss. EktaH is developing a drug with a novel mechanism of action to address this unmet medical need.

Key Findings / Results

EktaH has presented early clinical and preclinical data for its novel obesity drug candidate, NKS-3. These data suggest that NKS-3 not only promotes weight reduction but also shows promising results in maintaining muscle mass. Preclinical studies conducted in mice demonstrated that NKS-3 significantly inhibited weight regain observed after treatment with semaglutide, an existing GLP-1 drug. More importantly, NKS-3 exhibited the ability to effectively preserve lean body mass (primarily muscle mass) during the weight loss process. This unique characteristic suggests NKS-3's potential as a maintenance therapy following initial weight loss interventions. Based on these positive early findings, EktaH plans to advance the NKS-3 program into Phase 2 clinical trials in the first half of the coming year.

Technical Significance & Outlook

NKS-3's novel mechanism, achieving both "fat loss and muscle retention," represents a significant differentiator in the current obesity treatment market. If NKS-3 proves effective in later-stage clinical trials, it would offer substantial therapeutic advantages for patients concerned about muscle loss during rapid weight reduction, enabling higher-quality weight management beyond mere fat reduction. Successful development could position NKS-3 as an additive therapy or a next-generation obesity treatment with a significant market advantage. While its overall weight loss efficacy might currently lag behind established drugs from major biopharmaceutical companies, EktaH aims to differentiate NKS-3 by addressing the muscle preservation issue, which is a known limitation of current GLP-1s. The immediate challenge involves validating these early clinical and preclinical data in larger human trials and establishing long-term safety and efficacy. NKS-3's progression has the potential to shift the obesity treatment paradigm from simply "weight loss" to "healthy and high-quality weight management."

Source: <https://european-biotechnology.com/latest-news/ektah-links-novel-obesity-drug-to-fat-loss-muscle-retention-in-early-phase-trial/>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Viral Vector Manufacturing Market Projected to Reach USD 12.84 Billion by 2036: Driven by Gene Therapy Advances and CDMO Role

Published May 13, 2026 OpenPR Global



OVERVIEW

This article provides an overview of a market research report distributed by OpenPR. The report forecasts that the global viral vector manufacturing market will reach USD 12.84 billion by 2036, driven by the increasing number of approved gene therapies and growing investments in advanced biopharmaceuticals. Viral vectors are crucial for gene and cell therapies, and their complex manufacturing processes, requiring specialized facilities and strict GMP, lead many companies to outsource to expert CDMOs. A key technological trend highlighted is the shift from adherent to scalable suspension cell-based manufacturing platforms.

IN DEPTH

This article serves as an overview of a market research report distributed by OpenPR.

Report Overview

This market research report analyzes the rapid growth of the global viral vector manufacturing market, driven by the increasing development and approval of gene therapies and expanding investments in advanced biopharmaceuticals. The market under investigation focuses on viral vectors, including adeno-associated virus (AAV), lentivirus, and adenovirus, covering application areas such as gene therapy, CAR-T cell therapy, and regenerative medicine. The geographical scope encompasses the global market, including trends in key regions like Europe, the UK, Germany, and Switzerland.

Key Findings / Results

The report projects that the global viral vector manufacturing market will reach USD 12.84 billion by 2036. This growth is attributed to the increasing recognition of viral vectors as essential components for gene and cell therapies, alongside the inherent complexity of their manufacturing processes. Viral vector production is highly intricate, demanding specialized facilities, stringent quality control, and strict adherence to Good Manufacturing Practice (GMP) standards. As most biotechnology companies lack the necessary in-house infrastructure for this, there is a growing trend to outsource viral vector production to specialized Contract Development and Manufacturing Organizations (CDMOs), citing high capital expenditure and specialized expertise as primary reasons. A significant technological development noted is the ongoing shift from traditional adherent cell culture systems to more scalable suspension cell-based manufacturing platforms, which improves production scalability and efficiency.

About the Publishing Entity

While the specific research firm authoring this report is not explicitly named, OpenPR is a press release distribution service, indicating that this information was likely provided by an unnamed research company. It can be inferred that the research firm possesses expertise in providing detailed analysis and insights into the pharmaceutical manufacturing, biotechnology, and advanced therapeutics markets, focusing on industry trends and market forecasts.

Source: <https://www.openpr.com/news/4512422/viral-vector-manufacturing-market-to-reach-usd-12-84-billion>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Silexion Therapeutics Initiates GMP Manufacturing for KRAS-Driven Cancer siRNA Therapy SIL204, Secures Phase 2/3 Trial Approval

Published May 13, 2026 Manila Times (via GlobeNewswire) ケイマン諸島



OVERVIEW

Silexion Therapeutics has commenced GMP clinical batch manufacturing for SIL204, its next-generation siRNA therapeutic targeting mutated KRAS oncogenes. Concurrently, the company received approval from the Tel Aviv Sourasky Medical Center for a Phase 2/3 clinical trial in locally advanced pancreatic cancer (LAPC). SIL204 employs an innovative dual-route administration strategy, combining intratumoral and systemic delivery to address both primary tumors and metastatic disease. The drug substance manufacturing was performed by a specialized global oligonucleotide CDMO, facilitating a seamless transition to drug product formulation.

IN DEPTH

Background

The KRAS oncogene is one of the most frequently mutated oncogenes in human cancers, including pancreatic, lung, and colorectal cancers, and is deeply implicated in tumor proliferation, survival, and metastasis. For many years, KRAS was considered an "undruggable" target due to its complex structure and function. In recent times, nucleic acid-based therapeutics, particularly approaches utilizing siRNA (small interfering RNA), have emerged as promising strategies to overcome this challenging target by directly suppressing KRAS gene expression. For aggressive diseases like locally advanced pancreatic cancer (LAPC) with poor prognoses, innovative therapeutic strategies are urgently needed.

Key Findings / Results

Silexion Therapeutics has announced the initiation of GMP (Good Manufacturing Practice) clinical batch manufacturing for SIL204, its next-generation siRNA therapeutic specifically designed to silence mutated KRAS oncogenes. This manufacturing effort aims to secure the necessary clinical supply for a planned Phase 2/3 clinical trial targeting patients with locally advanced pancreatic cancer (LAPC). Concurrently, the company obtained approval from the Helsinki Ethics Committee of the Tel Aviv Sourasky Medical Center in Israel to proceed with this Phase 2/3 trial. SIL204 adopts an innovative dual-route administration strategy, combining intratumoral delivery to act directly on the primary tumor with systemic administration to address metastatic disease. This approach aims to tackle both local and systemic disease burdens.

The drug substance (API) for SIL204 was manufactured in 2025 by a specialized global oligonucleotide CDMO (Contract Development and Manufacturing Organization). This collaboration ensured the provision of high-quality API, facilitating a swift and seamless transition to drug product formulation. The reliance on this CDMO highlights the specialized nature of nucleic acid drug manufacturing and the importance of partners who can meet stringent technical requirements.

Technical Significance & Outlook

The commencement of GMP clinical supply manufacturing for SIL204 and the approval for its Phase 2/3 clinical trial represent significant milestones in bringing this promising siRNA therapeutic to patients. An siRNA therapeutic approach targeting the KRAS oncogene, previously considered an intractable target, has the potential to usher in a major advancement in cancer treatment. The dual-route administration strategy, combining intratumoral and systemic delivery, offers a distinct advantage over existing approaches by aiming for maximum therapeutic efficacy against both primary tumors and metastatic disease. Future focus will be on the success of the Phase 2/3 trial, demonstrating a favorable safety and efficacy profile in LAPC patients, and navigating the subsequent regulatory approval pathways. Should this drug gain approval, it could offer new hope for treating aggressive cancers like pancreatic cancer.

Source: <https://www.manilatimes.net/2026/05/13/tmt-newswire/globenewswire/silexion-therapeutics-announces-initiation-of-gmp-clinical-supply-manufacturing-of-sil204-with-leading-global-cdmo-and-new-approval-of-phase-23-trial-from-tel-aviv-sourasky-medical-center/2342808/amp>

Collected: May 15, 2026 | Automated Research System (Gemini API)

U.S. Small Molecule API Market Forecast to Reach USD 103.37 Billion by 2035, Driven by HPAPI and Domestic Manufacturing

Published May 14, 2026 | Precedence Research | USA



OVERVIEW

This article presents an overview of a market research report published by Precedence Research, which projects the U.S. small molecule API market to reach USD 103.37 billion by 2035. Key growth drivers include the increasing involvement of highly potent active pharmaceutical ingredients (HPAPI) and a strong focus on domestic manufacturing initiatives. This trend is strengthening partnerships with CDMOs and promoting in-house production of critical APIs. Technological advancements, such as the integration of green chemistry and continuous manufacturing, are propelling the shift towards sustainable operations. Novartis, for example, expanded its 7th U.S. facility in April 2026 to enhance end-to-end manufacturing capabilities.

IN DEPTH

This article provides an overview of a market research report published by Precedence Research.

Report Overview

This market research report offers a detailed analysis of the growth outlook for the U.S. small molecule Active Pharmaceutical Ingredient (API) market. The scope of the report extends to 2035, encompassing market size, growth drivers, key trends, and the competitive landscape. The report specifically focuses on the impact of increasing demand for highly potent active pharmaceutical ingredients (HPAPI), strengthening domestic manufacturing initiatives, and innovations in manufacturing technologies on market growth.

Key Findings / Results

According to the report, the U.S. small molecule API market is projected to reach a size of USD 103.37 billion by 2035. This growth is primarily driven by the following factors:

- **Increased use of Highly Potent Active Pharmaceutical Ingredients (HPAPI):** There is a growing development and production of highly potent drugs, particularly in oncology, which necessitates specialized handling and manufacturing capabilities.
- **Focus on Domestic Manufacturing Initiatives:** To enhance supply chain resilience and mitigate geopolitical risks, the U.S. government and pharmaceutical companies are accelerating investments in strengthening domestic API manufacturing capacity.
- **Enhanced Partnerships with CDMOs:** Pharmaceutical companies are increasingly collaborating with Contract Development and Manufacturing Organizations (CDMOs) specializing in complex API manufacturing to improve efficiency and flexibility.
- **Technological Advancements:** The integration of green chemistry and continuous manufacturing is transforming API production into a more sustainable and efficient process. For instance, Novartis expanded its seventh facility in the U.S. in April 2026, aiming to strengthen its end-to-end drug manufacturing capabilities and expand its market presence with modern therapeutic platforms.

About the Publishing Entity

Precedence Research is a global market research and consulting firm that provides market intelligence reports and consulting services across various industries, including healthcare, biotechnology, chemicals, and information technology. The firm supports clients' strategic decision-making by offering in-depth market analysis, trend forecasts, and competitive intelligence. They possess deep expertise in the pharmaceutical API market, and their analyses capture key industry dynamics and future growth drivers.

Source: <https://www.precedenceresearch.com/databook/us-small-molecule-api-market>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Contract Organizations' Pivotal Role in Lentiviral Manufacturing Accelerates Gene Therapy Commercialization

Published May 08, 2026 MAI CDMO Global



OVERVIEW

This article highlights the essential role of Contract Development and Manufacturing Organizations (CDMOs) in lentiviral vector manufacturing, crucial for gene and cell therapies like CAR-T. Lentiviral vector production demands highly controlled biological systems, specialized biosafety laboratories, strict GMP compliance, and consistent quality. Consequently, many pharmaceutical and biotech companies partner with expert CDMOs. These CDMOs provide validated production systems, closed bioreactor technologies, contamination control, and comprehensive analytical testing to ensure the safety and potency of each batch.

Background

Gene and cell therapies are emerging as groundbreaking treatments for previously intractable diseases, including various cancers (such as CAR-T therapies), rare diseases, and inherited disorders. In the development of these advanced therapeutics, viral vectors, particularly lentiviral vectors, serve as indispensable tools for efficiently delivering genetic material into target cells. However, lentiviral vector manufacturing is a highly complex process, requiring substantial specialized expertise and capital investment due to its biological characteristics, stringent safety requirements, intricate production protocols, and strict Good Manufacturing Practice (GMP) regulations. As many pharmaceutical and biotechnology companies find it challenging to meet these advanced requirements in-house, partnering with specialized Contract Development and Manufacturing Organizations (CDMOs) has become a critical strategic approach.

Key Findings / Results

This article distinctly emphasizes the essential role of CDMOs in lentiviral vector manufacturing. The production of lentiviral vectors necessitates sophisticated expertise and infrastructure, including:

- **Highly Controlled Biological Systems:** Optimization of cell culture and viral expansion conditions to maximize vector titer and quality.
- **Specialized Biosafety Laboratories:** Given that lentiviruses are genetic delivery tools, facilities conforming to Biosafety Level 2 (BSL-2) or higher, along with stringent containment protocols, are mandatory.
- **Strict GMP Compliance:** Rigorous quality control and documentation are required to ensure the safety, purity, potency, and identity of each batch for clinical use and commercialization.
- **Consistent Quality and Scalability:** The ability to supply vectors with consistent quality from clinical trials through commercial production, while also being capable of increasing production volumes according to demand.

CDMOs are equipped to meet these demands by providing validated production systems, closed bioreactor technologies, stringent contamination control protocols, and comprehensive analytical testing to ensure the safety and potency of each batch. This approach allows pharmaceutical companies to offload manufacturing risks to CDMOs and focus on their core research and development activities.

Technical Significance & Outlook

Due to the high cost, complexity, and strict regulatory requirements associated with lentiviral vector production, CDMOs are indispensable for transitioning gene therapy research from the laboratory to clinical development and ultimately commercialization. CDMOs accelerate the market entry of gene therapies by providing the necessary infrastructure and technical skills to scale up manufacturing. Compared to in-house development, CDMOs offer a more cost-effective and efficient solution for specialized lentiviral vector manufacturing. Future challenges include maintaining consistent vector quality and potency throughout large-scale production and continuous adaptation to evolving regulatory landscapes, particularly concerning advanced therapeutic medicinal products. CDMOs will continue to enhance their strategic value in supporting the rapid growth of the cell and gene therapy sector.

Source: <https://mai-cdmo.com/lentiviral-vector-manufacturing-role-of-contract-organizations>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Synthetic Small Molecule API Market to See Growth through 2035, Driven by Oncology Pipeline and Generic Demand, Report Says

Published May 12, 2026 IndexBox Global

INDEXBOX

Markets

Synthetic Small Molecule API Market Forecast Points Higher Toward 2035 Amid Rising...

IndexBox Market Intelligence

OVERVIEW

This article provides an overview of a market research report published by IndexBox, which forecasts growth in the global synthetic small molecule API market, driven by increasing chronic disease prevalence, a robust oncology pipeline, and rising demand for generic APIs. Key trends include growing demand for highly potent active pharmaceutical ingredients (HPAPI) and components for antibody-drug conjugates (ADCs), such as payloads and linkers. CDMOs are playing an increasingly vital role due to outsourced API production, advancing continuous manufacturing and flow chemistry for safer HPAPI handling and efficiency. HPAPI manufacturing capacity is expanding in North America and Europe.

IN DEPTH

This article provides an overview of a market research report published by IndexBox.

Report Overview

This market research report provides a detailed analysis of the growth outlook for the global synthetic small molecule Active Pharmaceutical Ingredient (API) market through 2035. The report identifies the increasing prevalence of chronic diseases, the advancement of a robust oncology pipeline, and the growing demand for generic APIs as key drivers for this market. It also focuses on technological and market trends, such as the rising demand for highly potent active pharmaceutical ingredients (HPAPI) and specialized components like payloads and linkers for antibody-drug conjugates (ADCs).

Key Findings / Results

The report concludes that the global synthetic small molecule API market is poised for robust growth, supported by the following key factors:

- **Increasing Prevalence of Chronic Diseases:** The aging population and changing lifestyles are leading to a rise in chronic diseases such as cardiovascular diseases, diabetes, and chronic respiratory illnesses, thereby increasing the demand for APIs required for these treatments.
- **Strong Oncology Pipeline:** A rich pipeline of innovative anticancer drugs, especially targeted therapies and new drugs containing HPAPIs, is powerfully boosting the growth of the small molecule API market.
- **Rising Demand for Generic Drugs:** With healthcare cost containment measures and the increasing number of off-patent drugs in various countries, the demand for cost-effective generic drugs is growing, stimulating active API production for these products.
- **Increased Demand for HPAPI and ADC Components:** The handling of HPAPIs, such as payloads and linkers for ADCs and highly active oral anticancer drugs, requires specialized facilities and technology, which is promoting outsourcing to CDMOs.
- **Adoption of Continuous Manufacturing and Flow Chemistry:** There is a significant shift towards continuous manufacturing and flow chemistry for safer handling of highly potent compounds, improved yields, and reduced waste. This enhances production efficiency and environmental sustainability.

Contract Development and Manufacturing Organizations (CDMOs) play a crucial role as pharmaceutical companies increasingly outsource API production. Notably, there is active expansion of HPAPI manufacturing capacity in North America and Europe.

About the Publishing Entity

IndexBox is a market research company that provides global market analysis and forecasts. It offers detailed reports and data tools across a wide range of industrial sectors, analyzing market trends, trade statistics, production data, and price movements. The company supports corporate strategy development with deep insights and a data-driven approach, even in niche areas like the synthetic small molecule API market.

Source: <https://www.indexbox.io/blog/synthetic-small-molecule-api-market-forecast-points-higher-toward-2035-amid-rising-chronic-disease-burden-and-cdmo-expansion/>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Avidity Biosciences Leads Muscle Disease Therapy with Antibody-Oligonucleotide Conjugates (AOCs): DM1 HARBINGER™ Trial Advances to Phase 3

Published May 13, 2026 Bitget Global

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OVERVIEW

Avidity Biosciences is a leading company in Antibody-Oligonucleotide Conjugates (AOCs), developing novel RNA therapeutics for muscle diseases. Its lead candidate, delpacibart etedesiran (AOC 1001), is progressing into the global Phase 3 HARBINGER™ trial for Myotonic Dystrophy Type 1 (DM1), potentially becoming the first treatment for this disease with no approved therapies. Another candidate, delpacibart zotirsén (AOC 1044), targeting Duchenne Muscular Dystrophy (DMD) amenable to exon 44 skipping, has shown significantly higher exon skipping and dystrophin production in early data. Avidity maintains a competitive edge through the maturity of its clinical data in DM1 and Facioscapulohumeral Muscular Dystrophy (FSHD).

IN DEPTH

Background

Muscular dystrophies and other rare muscle disorders are often characterized by progressive muscle weakness and functional impairment, significantly degrading patients' quality of life. While many of these diseases stem from genetic mutations, efficient delivery of nucleic acid therapeutics to target muscle tissue has been a long-standing challenge. Conventional nucleic acid drugs, such as antisense oligonucleotides (ASOs) and small interfering RNAs (siRNAs), tend to accumulate primarily in the liver, making sufficient delivery to extrahepatic target tissues, especially muscle, difficult. To address this unmet medical need, the development of innovative drug delivery systems (DDS) that specifically target and deliver nucleic acids to particular cells and tissues is crucial.

Key Findings / Results

Avidity Biosciences is a pioneering company in the field of Antibody-Oligonucleotide Conjugates (AOCs), developing novel RNA therapeutics for muscle diseases like muscular dystrophy. The company's lead AOC candidate, delpacibart etedesiran (AOC 1001), is currently progressing into the global Phase 3 HARBINGER™ trial for the treatment of Myotonic Dystrophy Type 1 (DM1). DM1 is a debilitating disease for which no approved therapies currently exist, positioning AOC 1001 as a potential first-in-class treatment. In DM1, specific mRNA mutations within muscle cells lead to the production of aberrant proteins, causing muscle dysfunction. AOC 1001 achieves efficient nucleic acid delivery by conjugating an oligonucleotide that targets this abnormal mRNA with a muscle-cell-specific antibody.

Another AOC candidate, delpacibart zotirsén (AOC 1044), targets Duchenne Muscular Dystrophy (DMD) mutations amenable to exon 44 skipping. Early data for this drug has shown significantly higher exon skipping efficacy and increased dystrophin protein production in muscle tissue, representing a promising advance in DMD treatment. Avidity is widely recognized within the industry for the maturity of its clinical data in DM1 and Facioscapulohumeral Muscular Dystrophy (FSHD), maintaining a competitive advantage against direct rivals such as Dyne Therapeutics.

Technical Significance & Outlook

Avidity Biosciences' AOC technology holds the potential to revolutionize muscle disease treatment by enabling targeted delivery to extrahepatic tissues, particularly muscle, which has been a major challenge for conventional nucleic acid therapeutics. The progression of its lead candidate into Phase 3 trials and robust early data from other programs significantly enhance the commercialization potential for severe rare diseases like DM1, which have high unmet medical needs. Beyond muscular dystrophies, the AOC platform is expected to have broad applications for various extrahepatic diseases, dramatically expanding the therapeutic scope of nucleic acid medicines. Future challenges include the successful completion of Phase 3 trials and regulatory approval, as well as optimizing the manufacturing and supply chain for complex AOCs. Avidity's success suggests that nucleic acid therapeutics, via next-generation targeted delivery, can bring new hope to diseases previously considered difficult to treat.

Source: <https://www.bitget.com/stock/nasdaq-rnam/what-is>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Celltrion Projected to Achieve First Annual Revenue of 5 Trillion Won (approx. \$3.4 Billion) Driven by Expanding European Biosimilar Market Share

Published May 14, 2026 BigGo Finance South Korea



OVERVIEW

South Korean biopharmaceutical company Celltrion is projected to reach its first-ever annual revenue exceeding 5 trillion won (approximately \$3.4 billion) in 2026, buoyed by robust performance in the European autoimmune disease treatment market. Its flagship Remsima product line, including the subcutaneous RemsimaSC, commanded a combined 70% share of the European infliximab market by Q4 2025, with RemsimaSC alone capturing over 50% in Germany. New high-margin biosimilars Omlyclo and Aptoзма are rapidly gaining traction, highlighting Celltrion's strong European presence and successful high-value biosimilar strategy.

Background

The global biosimilar market is experiencing rapid expansion, driven by the expiry of patents for key biological drugs. The market for autoimmune disease treatments, in particular, presents significant opportunities for biosimilars due to substantial unmet medical needs and the high cost of originator drugs. South Korea's Celltrion has long focused on the development and manufacturing of biosimilars, establishing a strong presence in the European market. By balancing cost-effectiveness with high quality, the company aims to improve patient access while contributing to healthcare cost reduction.

Key Findings / Results

Celltrion, a South Korean biopharmaceutical company, is projected to achieve a landmark milestone in 2026, with its annual revenue expected to surpass 5 trillion won (approximately \$3.4 billion) for the first time. This impressive growth is primarily fueled by the company's strong performance in the European market for autoimmune disease treatments. Celltrion's flagship Remsima product line, especially the subcutaneous formulation RemsimaSC, has dominated the market due to its convenience and efficacy. By Q4 2025, the Remsima portfolio collectively held an overwhelming 70% share of the European infliximab market, with RemsimaSC alone capturing over 50% market share in Germany.

Furthermore, new high-margin biosimilar products, Omlyclo and Aptoзма, are also gaining rapid market acceptance. Omlyclo achieved a 15% European market share within two quarters of its launch, and Aptoзма secured a 5% share shortly after its sequential rollout. Celltrion reported a consolidated revenue of 1.15 trillion won and an operating profit of 321.9 billion won for Q1 2026, marking substantial year-over-year increases of 36% and 115.5%, respectively. This growth is anticipated to accelerate further in the second half of the year, as European pharmaceutical tenders typically occur in Q2 and Q3. The company's strategy is centered on expanding market share for these high-margin biosimilars and leveraging its robust existing presence in Europe.

Technical Significance & Outlook

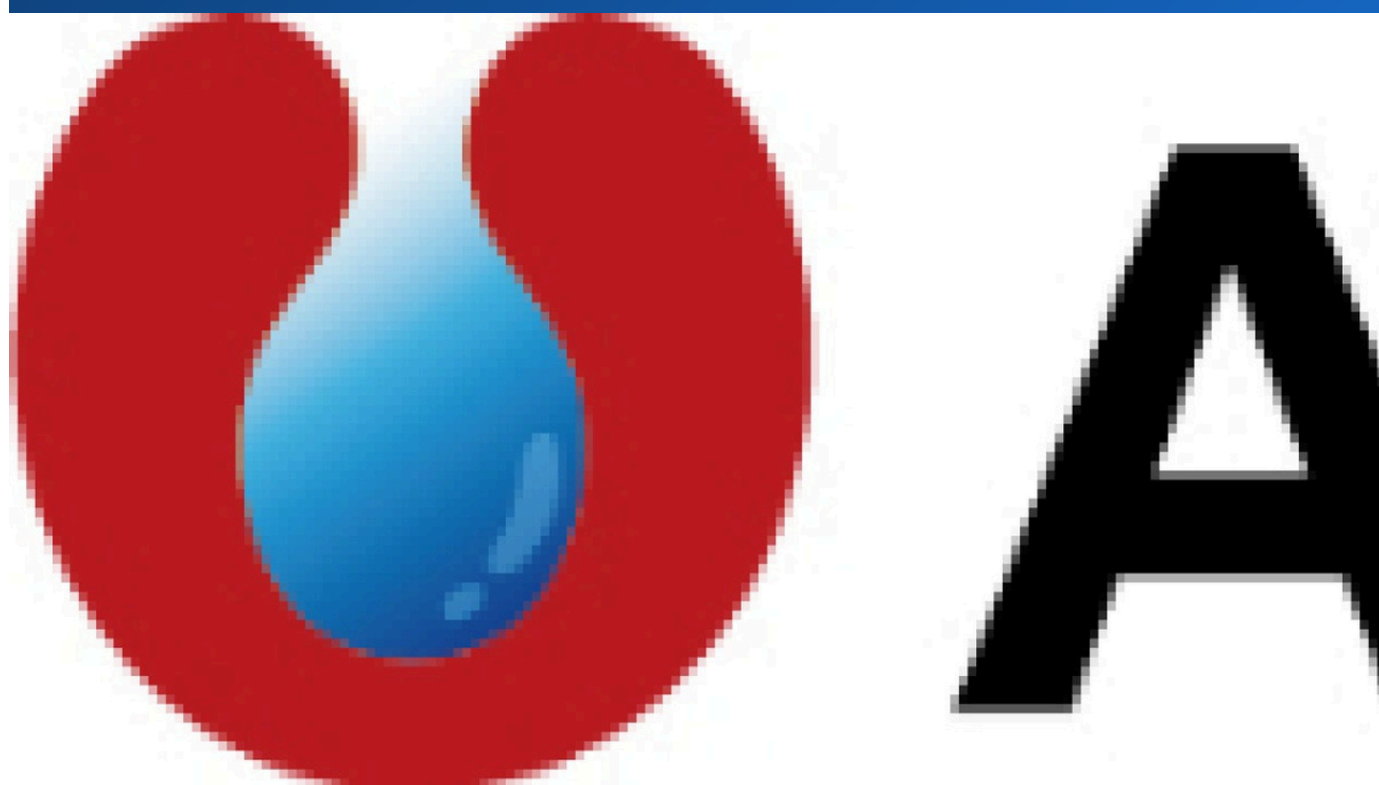
Celltrion's success clearly demonstrates that high-quality biosimilars are being embraced by both healthcare systems and patients as cost-effective alternatives to originator drugs. The significant market success of improved formulations like RemsimaSC, in particular, highlights the profound impact of drug delivery system (DDS) innovations on biosimilar market competitiveness. The company's strong financial foundation and leadership in the European market are expected to further accelerate the development and introduction of future novel biosimilars. Moreover, Celltrion's achievements serve as a crucial example that the South Korean biopharmaceutical industry can compete effectively in the global market. Moving forward, the company is expected to sustain its growth by expanding its portfolio of high-value novel biosimilars and implementing optimized regional market strategies.

Source: <https://finance.biggo.com/news/xPQgJJ4B-PfaobXfnWaW>

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Alteogen Secures Domestic Approval for Aflibercept Biosimilar 'Eygenpiju' in South Korea, Accelerating Global Reach

Published May 14, 2026 Daum South Korea



OVERVIEW

South Korean biopharmaceutical company Alteogen announced domestic market approval from the Ministry of Food and Drug Safety (MFDS) for 'Eygenpiju' (ALT-L9), its aflibercept biosimilar. This approval follows European market authorization under the brand 'Eyluxvi' last year, expanding its global footprint. The domestic approval is based on global Phase 3 trials conducted across 12 countries, including Europe, Korea, and Japan, which successfully demonstrated therapeutic equivalence and safety to the originator drug, Eylea. Alteogen plans its domestic launch while also advancing 'ALTS-OP01', a novel macular degeneration candidate, and high-dose formulation technologies, including an international patent filing.

Background

Ophthalmic diseases, particularly age-related macular degeneration and diabetic macular edema, are primarily treated with anti-VEGF (vascular endothelial growth factor) agents, which play a central role in inhibiting neovascularization. While highly effective, these drugs often impose a significant economic burden on patients and healthcare systems. Consequently, there is a global increase in demand for biosimilars, which are expected to offer comparable efficacy and safety to originator biologics at more accessible prices. South Korea's Alteogen has focused its efforts on developing complex biosimilars to address this growing market need.

Key Findings / Results

On May 15, 2026, South Korean biopharmaceutical company Alteogen announced that it had received domestic marketing authorization from the Ministry of Food and Drug Safety (MFDS) for 'Eygenpiju' (ALT-L9), its biosimilar to aflibercept. This approval is a significant milestone in Alteogen's global expansion strategy, following its market authorization in Europe last year under the brand name 'Eyluxvi'. The domestic approval is underpinned by results from global Phase 3 clinical trials conducted by Alteogen Biologics, a subsidiary, across 12 countries, including Europe, South Korea, and Japan. These trials successfully demonstrated therapeutic equivalence and safety when compared to the originator drug, Eylea (aflibercept).

Following this new approval, Alteogen plans to proceed with the domestic launch of Eygenpiju in South Korea. Furthermore, the company is actively advancing the development of 'ALTS-OP01', a novel candidate for macular degeneration treatment that aims to improve efficacy and extend the dosing interval compared to existing therapies. In connection with this, Alteogen has also filed an international patent (PCT) for a high-dose formulation technology, indicating its focus on innovation in delivery and formulation technologies.

Technical Significance & Outlook

The domestic approval of Alteogen's Eygenpiju holds significant implications for South Korean patients, providing a cost-effective alternative to aflibercept and enhancing healthcare accessibility. With approvals now in both Europe and its home market, Alteogen's global competitiveness and presence are further strengthened. This demonstrates that South Korean biopharmaceutical companies possess world-class clinical development capabilities and regulatory expertise in the complex field of biosimilar development. The development of the novel macular degeneration treatment candidate ALTS-OP01 and investments in high-dose formulation technology suggest that Alteogen is committed not only to biosimilars but also to innovative drug development. Extending the dosing interval, in particular, has the potential to significantly improve patient convenience and adherence, addressing a crucial unmet medical need. Future attention will be on the market introduction of Eygenpiju and the clinical development progress of its novel pipeline assets.

Source: <https://v.daum.net/v/20260515081715197>

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Veritas In Silico Advances mRNA-Targeted Small Molecule Drug Discovery with AI Platform 'aibVIS,' Bolstering European Collaborations

Published May 08, 2026 Investing.com (Fisco提供) Japan



OVERVIEW

Japanese biotech Veritas In Silico (VIS) is spearheading mRNA-targeted small molecule drug discovery using its proprietary AI platform, "aibVIS." This platform integrates in silico RNA structure analysis with multiple rule-based AI, enabling pharmaceutical companies to efficiently discover mRNA-targeted small molecules for diverse diseases, leveraging existing infrastructure. VIS is also developing its own pipeline, announcing its first nucleic acid drug candidate in 2025. In January 2026, the company expanded its European collaborations by partnering with SpiroChem AG in Switzerland for joint research on mRNA-targeted compounds.

Background

Traditional drug discovery approaches have primarily focused on protein targets. However, with the realization that approximately 80% of the human genome consists of "non-coding regions" that do not translate into proteins, RNA molecules like mRNA are gaining traction as novel drug targets. RNA, beyond being a precursor to proteins, possesses diverse intrinsic functions, offering potential new therapeutic avenues for diseases difficult to address with protein-targeted methods. Nevertheless, the complex three-dimensional structures of RNA molecules have made in silico analysis and the design of small molecules that bind to them exceedingly challenging. Veritas In Silico (VIS), a Japanese biotech company, is endeavoring to overcome this obstacle with AI technology.

Key Findings / Results

Veritas In Silico (VIS) is intensively focusing on advancing mRNA-targeted small molecule drug discovery, anchored by its proprietary AI drug discovery platform, "aibVIS." This "aibVIS" platform represents a sophisticated integration of advanced in silico RNA structure analysis technology with multiple rule-based AI and other drug discovery techniques. This comprehensive approach enables pharmaceutical companies to efficiently discover mRNA-targeted small molecule drugs for a wide range of disease areas, all while leveraging their existing drug discovery infrastructure and compound libraries. A key technical strength of aibVIS lies in its ability to accurately predict binding sites for small molecules on complex RNA structures, which was previously challenging, and to design compounds with high binding affinity.

In parallel with its platform-as-a-service partnership business model, VIS is also actively progressing its internal pipeline development. In 2025, the company announced its first nucleic acid drug candidate. Furthermore, VIS is strengthening its international collaborations; in January 2026, it signed a Memorandum of Understanding with SpiroChem AG, a Switzerland-based specialist in medicinal chemistry, for joint research on mRNA-targeted compounds. This partnership aims to expand VIS's R&D network in Europe and accelerate the creation of novel therapeutic candidates targeting mRNA.

Technical Significance & Outlook

Veritas In Silico's "aibVIS" AI drug discovery platform is paving the way for the robust utilization of RNA as a novel drug target. This significantly increases the likelihood of developing small molecule therapeutic options for diseases that have been difficult to treat, particularly conditions intractable with protein-targeted approaches.

Pharmaceutical companies can expect reduced development risks and costs, as they can efficiently acquire novel lead compounds in a shorter timeframe while optimizing their existing capital investments. The European partnership with SpiroChem AG will enhance VIS's global presence and foster international exchange of technology and knowledge.

VIS's hybrid business model (platform provision alongside internal pipeline development) indicates a strategic evolution towards becoming a specialty pharma company encompassing research, development, and commercialization. The future challenge lies in demonstrating clinical success for AI-designed compounds and establishing their efficacy and safety. mRNA-targeted small molecule drugs represent a distinct approach from other nucleic acid therapeutics (e.g., siRNA, ASO) and potentially offer advantages such as oral bioavailability, positioning them as a next-generation frontier in drug discovery whose progress will be closely watched.

Source: <https://jp.investing.com/news/stock-market-news/article-1525378>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Curanex Pharmaceuticals Reports Q1 2026 Progress, Phyto-N Advances Towards FDA IND Submission for Ulcerative Colitis and Pipeline Expands to Cancer Cachexia

Published May 14, 2026 Taiwan News Taiwan



OVERVIEW

US-based Curanex Pharmaceuticals provided a Q1 2026 update, focusing on its lead drug candidate, Phyto-N. The company is advancing Phyto-N towards a planned Investigational New Drug (IND) submission to the U.S. FDA for ulcerative colitis in Q4 2026, having completed GMP-compliant pilot-scale batch production and dose-range finding toxicology studies. Curanex also expanded its pipeline strategy to include cancer cachexia, an area with no FDA-approved therapies. These achievements highlight the company's progress in both clinical development and manufacturing readiness.

Background

Ulcerative colitis, a form of inflammatory bowel disease (IBD), is characterized by chronic inflammation and gastrointestinal symptoms that significantly impair patients' quality of life. Existing treatments present challenges, necessitating the development of safer and more effective novel therapeutics. Additionally, cancer cachexia is a complex syndrome seen in cancer patients, involving severe weight loss and muscle wasting, for which there are currently no FDA-approved therapies, representing a high unmet medical need. Curanex Pharmaceuticals is developing unique drug candidates to address these critical disease areas.

Key Findings / Results

Curanex Pharmaceuticals, a U.S.-based pharmaceutical development company, reported on its business progress for the first quarter of 2026. The report focused on Phyto-N, the company's lead drug candidate. Curanex is advancing Phyto-N towards a planned Investigational New Drug (IND) submission to the U.S. Food and Drug Administration (FDA) for ulcerative colitis in the fourth quarter of 2026. During the first quarter, the company achieved two significant manufacturing milestones for Phyto-N. First, it successfully produced a Good Manufacturing Practice (GMP)-compliant pilot-scale batch of Phyto-N, a crucial step for ensuring stable supply of high-quality drug for future clinical trials. Second, it completed dose-range finding toxicology studies in rats and dogs, providing initial data on Phyto-N's safety profile.

Furthermore, Curanex announced an expansion of its pipeline strategy to include the treatment of cancer cachexia. Cancer cachexia is a complex condition with a high medical need, as there are currently no FDA-approved therapies available. These accomplishments emphasize Curanex's steady progress in both clinical development and manufacturing readiness for its therapeutic assets.

Technical Significance & Outlook

Curanex Pharmaceuticals' successful progression of Phyto-N towards an IND submission for ulcerative colitis indicates the potential emergence of a new therapeutic option for patients with inflammatory bowel disease. The completion of GMP-compliant pilot-scale manufacturing signifies that the company's production infrastructure is being prepared to support rapid advancement into clinical trials. Moreover, the expansion of its pipeline into cancer cachexia, an area with high unmet medical needs, reflects the company's strategic vision and commitment to serving a broader patient population. While developing a treatment for cancer cachexia is highly challenging, success could yield a significant market impact. Future challenges include a successful IND submission, followed by verification of efficacy and safety in clinical trials, and ongoing dialogue with regulatory authorities for approval. These activities by Curanex represent important steps towards bringing innovative medicines to patients.

Source: <https://www.taiwannews.com.tw/en/news/6362690>

Collected: May 15, 2026 | Automated Research System (Gemini API)

Daiichi Sankyo Records Significant Loss Due to ADC Supply 'Miscalculation' Despite Strong Enhertu Sales, Raising Risk Management Questions

Published May 14, 2026 東洋経済オンライン Japan



OVERVIEW

Japanese pharmaceutical giant Daiichi Sankyo reported a substantial operating profit decrease for FY2025 despite record sales, attributing a 169.5 billion yen loss provision to compensation for Antibody-Drug Conjugate (ADC) Contract Manufacturing Organizations (CMOs). This 'miscalculation' in ADC supply planning, stemming from complex manufacturing and stringent long-term CMO contracts, highlights critical challenges in managing intricate ADC supply chains and raises questions about the company's risk management and disclosure practices, despite robust sales of its flagship ADC, Enhertu.

Background

Antibody-Drug Conjugates (ADCs) represent a groundbreaking modality in cancer treatment, delivering cytotoxic payloads selectively to cancer cells via specific antibodies, thereby revolutionizing oncology care. Daiichi Sankyo's 'Enhertu' (trastuzumab deruxtecan) has been a global success, driving significant revenue due to its high efficacy. However, ADC manufacturing is exceptionally complex, requiring multiple intricate steps including the synthesis of the antibody, drug payload, and linker, followed by their conjugation. This demands highly specialized technical expertise and stringent quality control. Consequently, the number of Contract Manufacturing Organizations (CMOs) capable of ADC production is limited globally, making long-term manufacturing agreements common for pharmaceutical companies, often including minimum purchase obligations.

Key Findings / Results

In its consolidated financial results for fiscal year 2025, announced on May 11, 2026, Daiichi Sankyo reported record-high revenue of 819.5 billion yen, a 25.8% increase year-on-year, demonstrating the continued strong performance of 'Enhertu.' Despite this robust sales growth, the company recorded a significant 31% decrease in operating profit compared to the previous year. The primary cause of this substantial profit reduction was the booking of a massive loss provision of 169.5 billion yen for compensation to its Antibody-Drug Conjugate (ADC) Contract Manufacturing Organizations (CMOs).

According to the article, this loss stemmed from a "miscalculation" in Daiichi Sankyo's ADC supply plan. Given the complexity of ADC manufacturing, long-term contracts with a limited number of global CMOs typically include minimum purchase obligations. Daiichi Sankyo reportedly failed to maintain its originally projected manufacturing volumes, leading to a breach of contract and subsequent compensation payments to the CMOs. This incident critically highlighted how complex and unpredictable the management of the ADC manufacturing supply chain can be, especially for highly potent drug products.

Technical Significance & Outlook

The booking of this substantial loss represents a major financial blow to Daiichi Sankyo and simultaneously raises questions regarding the company's risk management framework and information disclosure practices. It underscores the lesson that shortcomings in supply chain management can directly impact a company's profitability, despite strong commercial success like that of Enhertu. Moving forward, Daiichi Sankyo will likely need to revisit its contract terms with ADC manufacturing CMOs, improve the accuracy of its demand forecasting, and enhance the flexibility of its supply strategy.

Moreover, this issue raises broader questions for the entire industry regarding the industrialization challenges of the ADC modality. While specialized facilities and expertise are essential for ADC manufacturing, and partnerships with CDMOs are indispensable, this incident re-emphasizes the critical importance of balancing contract terms and risk sharing. As pharmaceutical companies build robust ADC pipelines, establishing a resilient and flexible manufacturing and supply system will be a crucial factor determining future competitive advantage. This case serves as a poignant reminder of the paramount importance of advanced supply chain management in biopharmaceutical manufacturing.

Source: <https://toyokeizai.net/articles/-/944546?display=b>