

Vertex Pharmaceuticals Redefines Biotech Leadership with Breakthrough Gene Therapies and Record Financial Growth in 2024

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Regulatory Approvals and Strategic Acquisitions Propel Vertex to New Heights, Paving the Way for Transformative Treatments in Sickle Cell Disease, Diabetes, and Cystic Fibrosis



Vertex Pharmaceuticals made substantial strides in its therapeutic pipeline, achieved key regulatory approvals, and demonstrated robust financial performance during the first half of 2024, solidifying its position as a leader in the biotech industry.

A major highlight was the advancement of Vertex's gene-editing therapies. **CASGEVY™ (exagamglogene autotemcel)**, a CRISPR/Cas9 gene-edited therapy, received multiple regulatory approvals, including from the FDA, European Commission, and the Saudi Food and Drug Authority, for treating severe sickle cell disease (SCD) and transfusion-dependent beta thalassemia (TDT) in patients aged 12 and older. This groundbreaking therapy offers a potentially transformative treatment option and has shown durable clinical benefits, as presented at the 2024 Annual European Hematology Association Congress.

In the field of type 1 diabetes (T1D), Vertex reported positive interim results from its Phase 1/2 trial for **VX-880**, an investigational therapy. The trial demonstrated that all patients treated with VX-880 produced glucose-responsive insulin, with many significantly reducing or eliminating their insulin use. These promising findings were presented at the American Diabetes Association's 84th Scientific Sessions in June 2024, signaling a potential breakthrough in diabetes treatment.

Vertex also made significant progress in pain management with **suzetrigine (VX-548)**, a non-opioid pain medication. The company completed a rolling submission of the New Drug Application (NDA) for suzetrigine in treating moderate-to-severe acute pain, and the FDA granted it Breakthrough Therapy designation for pain associated with diabetic peripheral neuropathy. The Phase 3 program for suzetrigine is expected to begin in the second half of 2024, marking another milestone in Vertex's expanding therapeutic portfolio.

In cystic fibrosis (CF), Vertex continued to lead with **TRIKAFTA®**, which showed significant benefits for CF patients with rare mutations. Long-term real-world data revealed sustained lung function improvements and reduced rates of lung transplants and mortality. Additionally, the European Commission approved an expansion of **KALYDECO®** to treat infants as young as one month old with specific CFTR gene mutations, making it the first approved treatment for this age group in

the European Union.

Financially, Vertex reported strong Q1 2024 revenues of \$2.54 billion, representing a 14% increase compared to the same period in 2023. This growth was primarily driven by the continued success of Vertex's CF franchise. The company also maintained strong net income and reaffirmed its financial guidance for the year, with expectations of further growth propelled by new product launches and advancements in its pipeline.

Strategically, Vertex expanded its capabilities through key collaborations and acquisitions. In April 2024, Vertex acquired Alpine Immune Sciences for \$4.9 billion, enhancing its immunotherapy portfolio, particularly in treating IgA nephropathy and other autoimmune diseases. Additionally, Vertex secured an exclusive license to TreeFrog Therapeutics' C-Stem™ technology to optimize the production of insulin-producing pancreatic islet cells for T1D therapies, further strengthening its cell therapy capabilities.

Overall, the first half of 2024 was marked by significant clinical and regulatory achievements, strategic acquisitions, and continued financial strength for Vertex Pharmaceuticals, positioning the company for sustained success and innovation in its therapeutic areas.