Computer-Aided Drug Discovery Market Shows Huge Demand and Future Scope Including Top Players 2030

Global computer-aided drug discovery market forecast is projected to reach $7,504.7 million by 2030, growing with an expected CAGR of 11.48% from 2022 to 2030.

Computer-Aided Drug Discovery Market

PORTLAND, OREGON, US, October 7, 2022 /EINPresswire.com/ -- The [Computer-aided drug discovery market](https://www.alliedmarketresearch.com) size was $2.9 billion in 2021, and is estimated to reach $7.5 billion by 2030, growing at a CAGR of 11.48% from 2022 to 2030. The report offers an in-depth analysis of the market size, emerging and current trends, future estimations, and key players. In the world of drug development, CADD is an effective tool for identifying potential therapeutic compounds. Computer-aided drug design (CADD) is a drug design technique used in medicinal chemistry. This method uses software to create multiple chemical structures with minor changes to a single drug structure that has already been shown to be therapeutically effective.

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The global computer-aided drug discovery (CADD) market, on the other hand, has seen a positive impact throughout the COVID-19 pandemic.

Computational technologies, specifically computer-aided virtual screening and molecular modelling, can play an important role in understanding the structural aspects of multiple coronavirus molecular targets and identifying novel lead molecules.

Researchers at Stony Brook University's Laufer Center, a hub for research in Physical and Quantitative Biology, announced to use computing therapeutics to discover chemicals that activate or inhibit viral molecules.

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• BOCSCI Inc.,
• Bioduro-Sundia,
• Schrödinger, Inc.,
• Aragen Life Sciences Pvt. Ltd.,
• Aris Pharmaceuticals, Inc,
• Charles River Laboratories,
• Bayer AG,
• AstraZeneca,
• Albany Molecular Research Inc. (AMRI)

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By type, the market is classified into structure-based drug design (SBDD), ligand-based drug design (LBDD), and sequence-based approaches. By therapeutic area, the analysis has been divided into oncology, neurology, cardiovascular disease, respiratory disease, diabetes, and others. By end-user, the market has been divided into pharmaceutical companies, biotechnology companies, and research laboratories. By region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Incorporation of advanced technologies in CADD is likely to increase the size of the computer aided drug discovery market in the coming years. Merging artificial intelligence and machine learning with structure-based approaches has emerged as a powerful new tool for drug development. Perhaps the scientific community will have to overcome the challenges posed by algorithms, scoring systems and lack of available data.

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Gene Therapy Market

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