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## **Bioinformatics in drug discovery**

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**B**ioinformatics, is an interdisciplinary field that develops methods and software tools for understanding biological data, in particular when the data sets are large and complex. As an interdisciplinary field of science, bioinformatics combines biology, computer science, information engineering, mathematics and statistics to analyze and interpret the biological data. Bioinformatics has been used for in silico analyses of biological queries using mathematical and statistical techniques. Bioinformatics deals with the exponential growth in biological data have led to the development of primary and secondary databases of nucleic acid sequences, protein sequences, and structures. Some of the well-known databases include GenBank, SWISS-PROT, PDB, PIR, SCOP, CATH, etc., these databases are available as public domain information and hosted on various Internet servers across the world. The basic research is done by using different databases along with the help of sequence analysis tools such as BLAST, FASTA, CLUSTALW, etc. The drug discovery process can be described as the identification and validation of a disease target and the discovery and development of a chemical compound to interact with that target. Bioinformatics is very useful for biomedical investigators to test the clinical samples.

### **Biography**

Utkarsh U. Bhamare is studying Pharmacy (medicine studies). He is in final year of B. Pharmacy at ahinsa institute of pharmacy college. He has published 2 Articles in "Research Journal of pharmacognosy and phytochemistry". He gave presentation on the topic "Animal modelling advances" at the [International webinar on latest advancements in medicinal biology] Dec 2021. He received an award from his college for being a "Best journal of the year". His interest in pharmacy began as a teenager. He has quick adaptability to emerging technology. He always ready to learn the new development or advancement in drug. He has excellent organizational planning and coordination skills and always ready to accept challenges.

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