CADD:- Computer aided drug design
↓
it uses computational methods to simulate drug interactions.
↓
it employs several methodolies eg computational genomics, molecular modelling, 2D and 3D Quantitative structure activity Relationship (QSAR).

It is also k/a CDD- Computational Drug Discovery
it design compounds with "ADMET" properties

Steps :- Hit Identification
↓
Pre-clinical studies
↓
Manufacturing
↓
Clinical trial stage
↓
Regulatory evaluation stage
↓
Marketing stage.

Structural Bioinformatics in Drug Discovery-

Bioinformatic tools are capable of converting a sequence into structure in case of a protein. With these solved protein structures the drug designing has become convenient. The branch dealing with this aspect is c/a **Structural Bioinformatics** or **SBI**

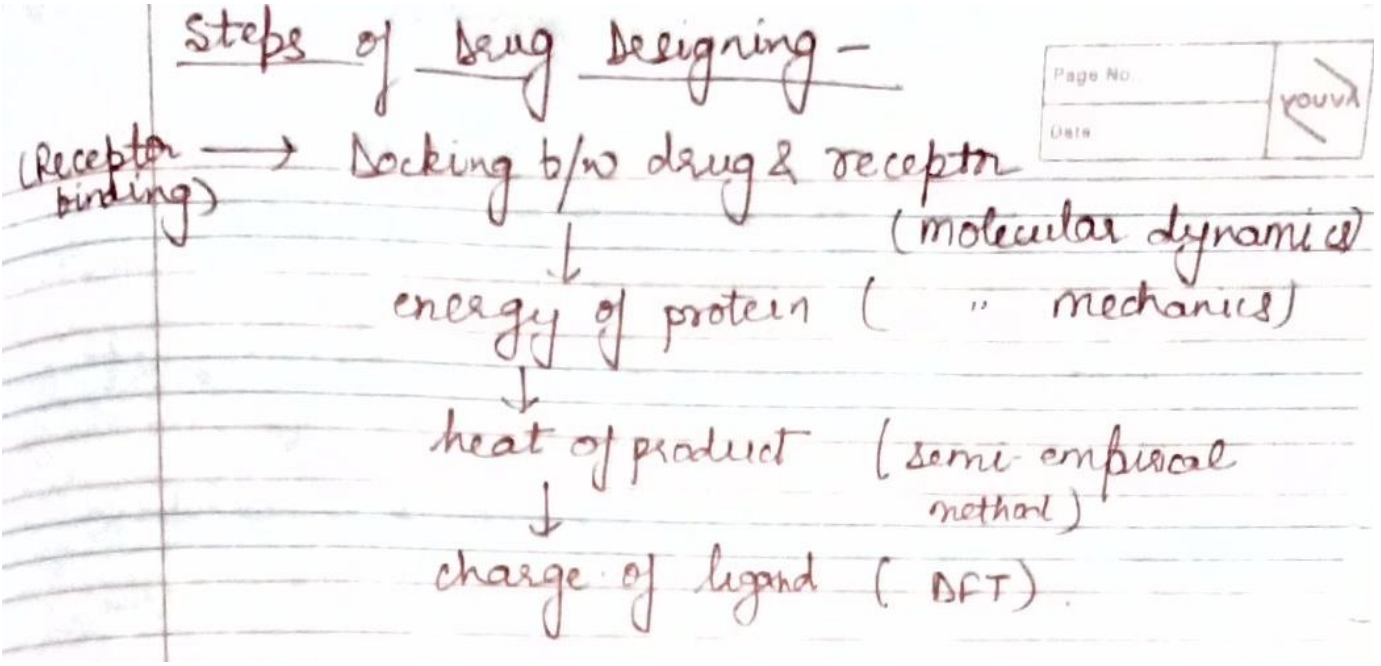
It is useful for { drug targets, ligand binding.

On the basis of making drug Human genome can be divided into –

1. Polysaccharide
2. Lipids
3. Nucleic Acids

} Omitted for drug designing.

4. Proteins.



Suggested readings:
https://link.springer.com/article/10.1007/s13721-013-0039-5

Review and research articles related to content is already sent.