What is a drug?

- A drug is a chemical/substance that is usually used to treat a disease/condition
- When administered appropriately causes a range of physiological and biochemical/molecular changes in a complex biological system that relate to its composition, structure and target

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Drug design- rational approach

What is a drug?

Drug design- rational approach

- A drug is anything that affects the way an organism works.
- Drugs can be taken to enhance function, such as a student drinking caffeine to enhance alertness.
- For now we only consider drugs which are used to cure a disease.

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Lead Optimization

- Lead optimization compares the properties of various lead compounds and provides information to help biopharmaceutical companies select the compound or compounds with the greatest potential to be developed into safe and effective medicines.
- Often during this same stage of development, lead prioritization studies are conducted in living organisms and in cells in the test tube to compare various lead compounds and how they are metabolized and affect the body.

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