The Road to DNA: A review of chemistry and biology

Chem 210 1/28/00











The constituents of a cell can be described in terms of *chemistry* (c. 1940)

- A physical model for the structure of molecules is available
 - Linus Pauling and others described *The Nature of the Chemical Bond;*
 - Important forces holding atoms together include:
 - Covalent bonds
 - Hydrogen bonds
 - Electrostatic interactions
 - Hydrophobic interactions
- The chemical entities which make up the cell are known
 - Carbohydrates
 - Lipids
 - Proteins
 - Nucleic acids

























