

The Hydrogen Bonding in Life and Society

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After giving a brief historical review on hydrogen bonding some hydrogen bonding controlled phenomena of life and society will be summarized. The importance and inevitability of H-bonding processes will be stressed on. The strength and the length of intermolecular and intramolecular hydrogen bonding which are measured experimentally and/or calculated theoretically will be discussed. The differences between nitrogen, oxygen, sulfur and halogen hydrogen bonding will be covered. Some selected cases of our work will be presented [1].

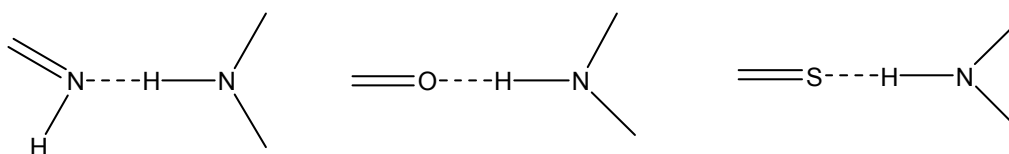


Figure 1: Some representative hydrogen bonding examples

[1] A.R. Katritzky, A.T. Soldatenkov, A.F. Pozharskii: *Heterocycles in life and society*, John Wiley & Sons, New York, 1997, England.