

Lecture-4

Kingdom of Bacteria

- 1- Bacteria are single celled prokaryotes
- 2- No organelles
- 3- Cell wall- composed of peptidoglycan and lipopolysaccharides.
- 4- DNA-single loop of DNA and not enclosed in nuclear membrane.
- 5- Aerobic and an aerobic
- 6- Reproduce through binary fission
- 7- Motile bacteria possess one or more flagella

Photoautotrophs: Cyanobacteria :

Also called blue-green algae, are microscopic organisms found naturally in all types of water. These single-celled organisms live in fresh, brackish (combined salt and fresh water), and marine water. These organisms use sunlight to make their own food.



Chemotrophs: sulfur-loving bacteria

- Need CO_2 as carbon source.
- Obtained energy not from light, but from oxidation of H_2S , NH_4 or Fe^+ .

