HOST-PARASITE RELATIONSHIPS



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PARASITE

An organism that lives in or on an organism of another species (its host) and benefits by deriving nutrients at the other's expense. Parasites include multi-celled and single-celled animals, fungi, bacteria, and some authorities also include viruses. Those that feed upon human hosts can cause diseases



PATHOGEN

A bacterium, virus, or other microorganism that can cause disease







e.g Naegleria fowleri



HOST-PARASITE RELATIONSHIPS

SYMBIOSIS

Type of a close and long-term biological interaction between two different biological organisms. The organisms, each termed a symbiont, may be of the same or of different species





MUTUALISM

- A relationship in which both species benefit
- At this very moment, you are in a mutualistic relationship with a population of bacteria in your large intestine. *Escherichia coli* lives in most mammals to break down food that mammals cannot digest. Bacteria gets food and a place to live and we benefit as well!



COMMENSALISM

- A relationship in which one species benefits and the other species is neither harmed or helped
- Example: Elf owl creating small hole for nest in the cactus



PARASITISM

Relationship between two species of plants or animals in which one benefits at the expense of the other, sometimes without killing the host organism







THANK YOU