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According to the coevolution, evolutionary changes of a species result in pressure on the process of selection of the other species which in turn returns result in a counter-adaptation process gained influencing the future evolution of the first kind.

The concept was enunciated by the investigator Janzen [1] in 1980 as that process by which two or more agencies lobby of mutual selection, synchronous, in geologic time, resulting in reciprocal specific adaptations. 1

The evolution in response to abiotic factors such as climate are coevolutionary processes and living factors that are not subject to biological evolution.Instead coevolution are processes and interactions between predator and prey, parasite and host, and the flower and pollinator, the tree and the mycorrhizae, etc.. In many cases co-evolution takes place between a complex network of species that influence each other. In this case we speak of "diffuse coevolution" possibly this is the most common type of coevolution.

Leigh Van Valen developed the concept of coevolution called Red Queen Hypothesis , referring to the book by Lewis Carroll (Charles Lutwidge Dodgson),Through the Looking Glass and What Alice Found There , Chapter 2: The Garden of Live Flowers (1872), a saga of the book Alice in Wonderland in which the Red Queen said: "It takes all the running you can do, to keep in the Same place." You need to sprint to stay in the same place. The Red Queen principle can be expressed as in evolutionary terms:

" For an evolutionary system, the continuous improvement necessary to maintain its fit only to systems that are coevolving . " 2

The French biologist, Thierry Lode , stresses the importance of sexual conflict in the evolution which he said leads to antagonistic coevolution. 3

Knowledge of coevolution focus being 4 to support research in epidemiology, medical, pathology botany and biological control .

The pollination is the transfer of pollen from the stamen to the stigma or receptive part of the flowers in angiosperms, where it germinates and fertilizes theovules of the flower, making possible the production of seeds and fruits .

The transport of pollen they can perform physical agents such as wind (plants anemophilous), water (species hydrophilic) or a pollinator animal (plants zoophilic). The physical characteristics andphenological anemophilous flowers, hydrophilic and zoophilic, as well as their pollen, are often markedly different. Zoophilic plants should draw the attention of their delivery with attractive colors and smells, and reward them with food or shelter. Different types of pollinators require different types of attractions and zoophilic flowers have evolved and diversified in a variety of types which can be grouped into floral syndromes . The visual beauty characteristically associated with the flowers is the effect of their coevolution with insect pollinators and other animals.

In cases where pollination occurs as a result of plant-animal these relationships are predominantly of type mutual . Ie relationships where both parties benefit. Unlike mandatory relationships (actualsymbiotic) that exist in nature, pollination relationships are almost always optional or optional, and flexible: the disappearance of a pollinator or plant does not necessarily lead to the

extinction of another participant in the interaction, that each of them has alternatives (other food sources in the case of the animal, or other pollinating species in the case of the plant). There are some very interesting cases of symbiotic relationships between pollinator and plant species, such as the fig wasp and yucca moth .

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