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evolution is the change in the heritable characteristics of biological populations over successive generations it occurs when evolutionary processes such as natural selection and genetic drift act on genetic variation resulting in certain characteristics becoming more or less common within a population over successive generations evolution theory in biology postulating that the various types of living things on earth have their origin in other preexisting types and that the distinguishable differences are due to modifications in successive generations evolution 101 an introduction to evolution what is evolution and how does it work the history of life looking at the patterns change over time and shared ancestors mechanisms the processes of evolution selection mutation migration and more microevolution evolution within a population speciation how new species arise biological evolution is the process of change and diversification of living things over time and it affects all aspects of their lives morphology form and structure physiology behaviour and ecology underlying these changes are changes in the hereditary materials human evolution the process by which human beings developed on earth from now extinct primates viewed zoologically we humans are homo sapiens a culture bearing upright walking species that lives on the ground and very likely first evolved in africa about 315 000 years ago evolution is a process that results in changes in the genetic content of a population over time there are two general classes of evolutionary change microevolution and macroevolution in some cases the evidence for evolution is that we can see it taking place around us important modern day examples of evolution include the emergence of drug resistant bacteria and pesticide resistant insects evolution 101 an introduction to evolution what is evolution and how does it work the history of life looking at the patterns change over time and shared ancestors mechanisms the processes of evolution selection mutation migration and more microevolution evolution within a population speciation how new species arise evolution is a process that results in changes in the genetic material of a population over time evolution reflects the adaptations of organisms to their changing environments and can evolution is the principal scientific theory that biologists use to understand life and is used in many disciplines including medicine psychology conservation biology anthropology forensics agriculture and other social cultural applications darwin defined evolution as descent with modification the idea that species change over time give rise to new species and share a common ancestor the mechanism that darwin proposed for evolution is natural selection the theory of evolution is a shortened form of the term theory of evolution by natural selection which was proposed by charles darwin and alfred russel wallace in the nineteenth century the theory of evolution by natural selection is attributed to 19th century british naturalist charles darwin the theory is widely accepted based on fossil records dna sequencing embryology comparative anatomy and molecular biology darwin s finches are examples of evolutionary adaptation the theory of evolution is a scientific theory that essentially states that species change over time there are many different ways species change but most of them can be described by the idea of natural selection in his book darwin describes how organisms evolve over generations through the inheritance of physical or behavioral traits as national geographic explains the theory starts with the premise evolution as related to genomics refers to the process by which living organisms change over time through changes in the genome such evolutionary changes result from mutations that produce genomic variation giving rise to individuals whose biological functions or physical traits are altered twelve alien destroyers turned into meteorites and hit the earth bringing an unknown zombie virus and setting off a doomsday frenzy the evolution zone has opened and power user has started to emerge wang zhe who died in battle ten years later has reborn and returned back in time descent with modification from preexisting species cumulative inherited change in a population of organisms through time leading to the appearance of new forms the process by which new species or populations of living things develop from preexisting forms through successive generations evolution biological theory that animals and plants have their origin in other preexisting types and that the distinguishable differences are due to modifications in successive generations it is one of the keystones of modern biological theory in 1858 charles darwin and alfred russel wallace jointly published the future of evolution noble is part of the third way a movement in evolutionary biology that views natural selection as part of a holistic organism centered process he co authored 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