history of molecular biology wikipedia - the history of molecular biology begins in the 1930s with the convergence of various previously distinct biological and physical disciplines biochemistry genetics microbiology virology and physics with the hope of understanding life at its most fundamental level numerous physicists and chemists also took an interest in what would become molecular biology, central dogma of molecular biology wikipedia - the central dogma of molecular biology is an explanation of the flow of genetic information within a biological system it is often stated as dna makes ma and ma makes protein although this is not its original meaning it was first stated by francis crick in 1957 then published in 1958, molecular biology definition of molecular biology by - molecular biology definition is a branch of biology dealing with the ultimate physicochemical organization of living matter and especially with the molecular basis of inheritance and protein synthesis how to use molecular biology in a sentence, biology new world encyclopedia - biology is the science of life it is the study of living and once living things from submicroscopic structures in single celled organisms to entire ecosystems with billions of interacting organisms it further ranges in time focus from a single metabolic reaction inside a cell to the life history of one individual and on to the course of many species over eons of time, genetic code biology encyclopedia definiency - the genetic code allows an organism to translate the genetic information found in its chromosomes into usable proteins stretches of deoxyribonucleic acid dna are built from four different nucleotide bases while proteins are made from twenty unique subunits called amino acids this numerical disparity presents an interesting problem how does the cell translate the genetic information in, evolution theory examples facts britannica com - evolution evolution theory in biology postulating that the various types of plants animals and other living things on earth 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, biology encyclopedia britannica com - biology is often approached on the basis of levels that deal with fundamental units of life at the level of molecular biology for example life is regarded as a manifestation of chemical and energy transformations that occur among the many chemical constituents that compose an organism as a result of the development of increasingly powerful and precise laboratory instruments and techniques, cell motility biology encyclopedia cells body - tumble and run in this process a bacterial cells tumbles end over end and then runs moving in a single random direction for a defined period of time