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molecular genetics is a scientific approach that utilizes the fundamentals of genetics as a tool to better understand the molecular basis of a disease and biological processes in organisms below are some tools readily employed by researchers in the field highlights in human molecular genetics and genomics cas9 denotes crispr associated protein 9 crispr clustered regularly interspaced short palindromic repeats hgp human genome project and learn more about the structure and synthesis of this remarkable molecule and how genes in your dna provide instructions for building proteins molecular genetics in particular is a study of heredity and variation at the molecular level it is focused on the flow and regulation of genetic information between dna rna and proteins molecular diagnostics encompasses the analysis of human viral and microbial genomes and the products they encode molecular genetics utilizes molecular biology s laboratory tools to relate genetic structure to protein function and ultimately health and disease the technology of molecular genetics developed in the last half century has enabled us to see deep into the history of life to deduce the relationships between living things in ways never thought possible it also allows us to understand the workings of evolution in populations of organisms

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