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The science of omics and its role in human health care

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In this presentation, the author discusses the historical perspective of the science of omics which primarily includes genomics/epi-genomics, proteomics and metabolomics and their prospects in human health care. The understanding of the Mendel rules of inheritance and the DNA double helical structure and that genes (DNA) make proteins which control a phenotype by catalyzing biochemical reactions and how these biochemical reactions are influenced by environmental factors define the coming of the different branches of omics. The science of omics has made it possible to decipher the entire DNA sequence as well as the entire amino acid sequence of proteins and their modification in a cell. Understanding of the different branches of omics has led to the development of precision medicine which is based on the care of a patient based on his /her DNA sequences and the genetic diversity. All these aspects will be the science of omics will be discussed.

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