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genetics refers to the scientific study of heredity or the study of how genes are passed from parents to offspring the gene is the basic building block of heredity it contains hundreds of sequences of dna with instructions for creating proteins that govern various functions around the body genetics otherwise known as the science of heredity is the study of biological information and how this information is stored replicated transmitted and used by subsequent generations the study of genetics can be sub divided into three main areas transmission genetics molecular genetics and population genetics genetics is the study of genes genetic variation and heredity in organisms it is an important branch in biology because heredity is vital to organisms evolution gregor mendel a moravian augustinian friar working in the 19th century in brno was the first to study genetics scientifically mendel studied trait inheritance patterns in the track traits through maternal and paternal ancestry identify genes their function and impact of mutations using model systems describe principles of population genetics decide the optimal method of genetic analysis to understand a gene s function genetics is the study of heredity in general and of genes in particular genetics forms one of the central pillars of biology and overlaps with many other areas such as agriculture medicine and biotechnology with the vast trove of data about human dna generated by the human genome project and other genomic research scientists and clinicians have more powerful tools to study the role that multiple genetic factors acting together and with the environment play in much more complex

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