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web a gene is a region of dna that encodes function a chromosome consists of a long strand of dna containing many genes a human chromosome can have up to 500 million base pairs of dna with thousands of genes in biology the word gene from greek ????? génos 1 meaning generation 2 or birth 1 or gender can have several different meanings web a gene is the basic physical and functional unit of heredity genes are made up of dna some genes act as instructions to make molecules called proteins however many genes do not code for proteins in humans genes vary in size from a few hundred dna bases to more than 2 million bases web jan 24 2019 genes are inherited through both asexual reproduction and sexual reproduction in asexual reproduction resulting organisms are genetically identical to a single parent examples of this type of reproduction include budding regeneration and parthenogenesis gametes fuse to form a distinct individual web jan 26 2023 the gene is considered the basic unit of inheritance genes are passed from parents to offspring and contain the information needed to specify physical and biological traits most genes code for specific proteins or segments of proteins which have differing functions within the body humans have approximately 20 000 protein coding genes web noun ?j?n plural genes a specific sequence of nucleotides in dna or rna that is located usually on a chromosome and that is the functional unit of inheritance controlling the transmission and expression of one or more traits by specifying the structure of a particular polypeptide and especially a protein or controlling the function of other genetic material web oct 27 2020 a gene is not the same as a genome a genome describes the entire genetic blueprint of a single organism a gene is a specific part of an organism s dna or in viruses rna web gene publishes papers that focus on the regulation expression function and evolution of genes in all biological contexts including all prokaryotic and eukaryotic organisms as well as viruses gene strives to be a very diverse journal and topics in all fields will be considered for publication note that manuscripts on bioinformatics are only considered web oct 30 2022 it is made up of dna genes and chromosomes 1 dna is a molecule in cells that carries the genetic information it is made up of building blocks the genetic coding of our traits is based on how these building blocks are arranged genes are segments of dna that determine our traits web jan 5 2023 gene unit of hereditary information that occupies a fixed position locus on a chromosome genes achieve their effects by directing the synthesis of proteins in eukaryotes such as animals plants and fungi genes web gene integrates information from a wide range of species a record may include nomenclature reference sequences refseqs maps pathways variations phenotypes and links to genome phenotype and locus specific resources worldwide

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