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the discovery of chromosomes and their behavior during meiosis 2n n and fertilization n n 2n established the structural basis for mendel s rules what is the status today of mendel s rules to put that another way meiosis in humans is a division process that takes us from a diploid cell one with two sets of chromosomes to haploid cells ones with a single set of chromosomes in humans the haploid cells made in meiosis are sperm and eggs meiosis is the fundamental process underlying mendelian genetics as the chromosomal transactions occurring during meiosis enable the mendelian laws of segregation and of independent assortment character traits exist in pairs that segregate at meiosis through careful study of patterns of inheritance mendel recognized that a single trait could exist in different versions or alleles even within an individual plant or animal during meiosis homologous chromosomes separate and go to different gametes thus the two alleles for each gene also go to different gametes at the same time different chromosomes assort independently describe cellular events during meiosis explain the differences between meiosis and mitosis explain the mechanisms within meiosis that generate genetic variation among the products of meiosis sexual reproduction requires fertilization the union of two cells from two individual organisms contents 10 2 meiosis 10 1 mendel chromosome rod shaped structures made of dna and proteins carrier of genetic material located in the nucleus copied and passed from generation to generation chromosomes sex chromosomes chromosomes that determine the sex of an organism humans \boldsymbol{x} and y females x x males x y chromosomes homologous chromosomes 2 when an organism makes gametes each gamete receives just one gene copy which is selected randomly this is known as the law of segregation a punnett square can be used to predict genotypes allele combinations and phenotypes observable traits of offspring from genetic crosses 1 10 chapter 1 answers page id natasha ramroop singh thompson rivers university if genetic factors blended together like paint then they could not be separated again the white flowered phenotype would therefore not reappear in the f2 generation and all the flowers would be purple or maybe light purple not white when mendel conducted his experiments he needed to transfer pollen grains from a male reproductive organ to a female reproductive organ in a plant what is this process called need a hint temecula valley unified school district homepage mendel s laws of inheritance include law of dominance law of segregation and law of independent assortment the law of segregation states that every individual possesses two alleles and only one allele is passed on to the offspring the diagram in figure 10 2 shows a diploid cell with two homologous pairs of chromosomes due to independent assortment the possible allelic combinations that could be found in gametes produced by the meiotic division of this cell are meiosis occurs in all sexually reproducing single celled and multicellular organisms which are all eukaryotes including animals plants and fungi it is an essential process for oogenesis and spermatogenesis 10 1 the process of meiosis sexual reproduction requires fertilization the union of two cells from two individual organisms if those two cells each contain one set of chromosomes then the resulting cell contains two sets of chromosomes haploid cells contain one set of chromosomes cells containing two sets of chromosomes are called diploid 252 what you ll learn you will identify the basic concepts of genetics you will examine the process of meiosis why it s important genetics explains why you have inherited certain traits from your parents if you understand how meiosis occurs you can see how these traits were passed on to you mendel and meiosis describe cellular events during meiosis explain the differences between meiosis and mitosis explain the mechanisms within meiosis that generate genetic variation among the products of meiosis sexual reproduction requires fertilization the union of two cells from two individual organisms the cell cycle characteristically lasts between 10 and 20 hours in rapidly proliferating adult cells but it can be arrested for weeks or months in wonderware application

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quiescent cells or for a lifetime in neurons of the brain prolonged arrest of this type usually occurs during the g 1 phase and is sometimes referred to as g 0 meiosis goes through all 5 phases of the cell cycle twice with modified mechanisms that ultimately create haploid cells instead of diploid in sperm cells the male gametes meiosis proceeds in the following manner

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meiosis is the fundamental process underlying mendelian genetics as the chromosomal transactions occurring during meiosis enable the mendelian laws of segregation and of independent assortment

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character traits exist in pairs that segregate at meiosis through careful study of patterns of inheritance mendel recognized that a single trait could exist in different versions or alleles even within an individual plant or animal

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during meiosis homologous chromosomes separate and go to different gametes thus the two alleles for each gene also go to different gametes at the same time different chromosomes assort independently

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describe cellular events during meiosis explain the differences between meiosis and mitosis explain the mechanisms within meiosis that generate genetic variation among the products of meiosis sexual reproduction requires fertilization the union of two cells from two individual organisms

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contents 10 2 meiosis 10 1 mendel chromosome rod shaped structures made of dna and proteins carrier of genetic material located in the nucleus copied and passed from generation to generation chromosomes sex chromosomes chromosomes that determine the sex of an organism humans x and y females x x males x y chromosomes homologous chromosomes 2

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meiosis occurs in all sexually reproducing single celled and multicellular organisms which are all eukaryotes including animals plants and fungi it is an essential process for oogenesis and spermatogenesis

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10 1 the process of meiosis sexual reproduction requires fertilization the union of two cells from two individual organisms if those two cells each contain one set of chromosomes then the resulting cell contains two sets of chromosomes haploid cells contain one set of chromosomes cells containing two sets of chromosomes are called diploid

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252 what you ll learn you will identify the basic concepts of genetics you will examine the process of meiosis why it s important genetics explains why you have inherited certain traits from your parents if you understand how meiosis occurs you can see how these traits were passed on to you mendel and meiosis

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