

Molecular/Mendelian Genetics

DNA Structure

Polymer of _____ that consists of a _____ group, _____, and _____, containing _____

DNA Replication

DNA replicates just before _____ division. _____ unwinds the DNA, _____ polymerase adds DNA nucleotides, and _____ forms the _____ fragments on the _____ strand. The _____ strand is always replicated _____ the replication fork and the _____ strand is replicated _____ from the fork.

Meiosis

The process in which a _____ (2N) cell yields _____ identical _____ (1N) cells. DNA replication occurs during _____. This phase is followed by _____, and _____. An "X" structure is called a _____ and each side of the X is a _____.

Significant Experiments

_____ (Mice & bacterial transformation)
_____ & _____ (Viruses - DNA vs Protein)
_____ (Base pairing rules)
_____ & _____ (DNA Structure)

Sexual Reproduction

Offspring result from the combination of two _____ cells. One parent donates a set of chromosomes and the other parent donates a set of chromosomes that are _____ to the first set. This way, the offspring's cells will be _____ or will contain the "normal" chromosome number for that species.

Meiosis

Meiosis is the process in which 1 _____ cell yields _____ unique, haploid cells. During meiosis, _____ form during Prophase I. This is also called _____ and is the pairing of _____ chromosomes. At this time _____ & _____ chromosomes may or may not _____ over. During Anaphase I, it is the _____ & _____ chromosomes that assort (or split) randomly. This is Mendel's 2nd Law, the Law of _____. Assortment. The fact that the maternal and paternal chromosomes (Aa, _____ chromosomes) are separating at this point (A from a), supports Mendel's first law, the Law of _____. Meiosis ensures that each _____ will only contain 1 copy of each _____ chromosome. For example, a normal human baby should never receive two copies of chromosome 21 from one parent. This can, in fact, happen if homologous chromosomes do not separate properly during Anaphase _____ or the chromatids do not separate during Anaphase _____. This mistake is called a _____. Trisomy 21 (baby has 3 copies of chrom. 21) is known as _____ syndrome. _____ syndrome and _____ syndrome result from a non-disjunction of the _____ chromosome.

Gene to Protein (Protein Synthesis)

The purpose of a _____ (segment of DNA) is to provide cells with a code to make a specific _____. The first process in which mRNA is copied from one strand of DNA (the gene) is called _____. The mRNA then undergoes processing for _____ cells only. The mRNA heads to the _____ of the cell where the _____ cap binds to the _____ ribosomal subunit. Corresponding _____ tRNAs are then signaled to carry and line up specific _____, & _____ bond is then formed between the amino acids to produce a finished _____.

Genetics Ap Biology Guide

Marcel A. Müller



Genetics Ap Biology Guide:

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