

Genetics unit study guide

Vocabulary:

- 11.1 { asexual vs. sexual reproduction
gamete vs. somatic cells
zygote
fertilization
diploid vs. haploid
homologous chromosomes
- 11.2 { sex chromosome vs. autosome
meiosis vs. mitosis
crossing-over
- 11.3 { independent assortment
sperm vs. egg (ovum)
- 12.2 { allele
dominant vs. recessive
genotype vs. phenotype
homozygous vs. heterozygous
- 12.3 testcross
- 12.4 polygenic character

- 13.1 { DNA vs. gene vs. chromosome
nucleotide (and its 3 parts)
nitrogen base (adenine, guanine, cytosine, guanine, uracil (13.2))
double helix
- 13.2 replication
- 13.3 { transcription vs. translation
ribose vs. deoxyribose
messenger vs. transfer vs. ribosomal RNA
codon
- 14.1 { mutation (point vs. insertion vs. deletion)
mutagen
nondisjunction
- 15.2 { genetic engineering
recombinant DNA
plasmid (also in 14.3)
- 15.3 restriction enzyme

Textbook sections:

11.1 – Methods of producing new organisms

--in asexual reproduction, _____ parent(s) transfer(s) DNA to the offspring, so the offspring is genetically (identical / different) than the parent(s)

--in sexual reproduction, _____ parent(s) transfer(s) DNA to the offspring, so the offspring is genetically (identical / different) than the parent(s)

--some organisms can do both (not humans!) ... so why would an organism choose to reproduce asexually (what are its advantages?)

why would an organism choose to reproduce sexually (what are its advantages?)

--complete the blanks below with the words **gene**, **chromosome**, and **DNA**

_____ contains the code for making proteins. A small part of this sequence that codes for one specific protein is called a _____, and all of this can be packed up into a larger structure called a _____.

--chromosomes come in pairs ... these pairs contain the same genes (though they might have slightly different versions) ... I am showing three genes below on the pair of chromosomes



Because these two chromosomes both contain the "A" gene, "R" gene, and "G" gene, the chromosomes are a pair, called

_____ chromosomes.

Genetics 2 Unit Study Guide

Chao Zhang



Genetics 2 Unit Study Guide:

Reviewing **Genetics 2 Unit Study Guide**: Unlocking the Spellbinding Force of Linguistics

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