Cheatography

Biology Exam 2 Cheat Sheet by TheyCallMeRy via cheatography.com/30883/cs/9492/

| Mono-hybrid Cross Ratio | |
|-------------------------|------------|
| Ratio | 3:1 |
| | |
| 2 Types of Respiration | |
| Respiration | Breathing |
| Cellular Respiration | Making ATP |

Cellular Respirtation

glucose is broken down to carbon dioxide and water and the cell captures some of the released energy to make ATP

Equation: Glucose + Water -> Carbon Dioxide + Water + ATP

| Aerobic Respiration | on vs. Anaerobic |
|--------------------------|-----------------------------------|
| Aerobic Respiration | a process that uses oxygen |
| Anaerobic Respiration | a process that doesn't use oxygen |

two forms of cellular respiration.

| Aerobic Respiration vs. Anaerobic Respiration | |
|--|---|
| Aerobic respiration | a process that uses oxygen, takes place in the cytoplasm and the mitochondria, most effeciant |
| Anaerobic espiration | a process that doesn't use oxygen, takes place in the cytoplasm and the mitochondria, least effeciant |

two forms of cellular respiration.

| Redox Reaction | |
|----------------|-----------------------|
| Reduction | gaining electrons |
| Oxidation | the loss of electrons |
| | |

Citric Acid Cycle Where are the enzymes for the citric acid cycle located?

By TheyCallMeRy cheatography.com/theycallmery/

Matrix and

Inner Membrane

| Reproduction | |
|-----------------------------|--|
| Asexual Reprod uction | produces offspring that are identical to the original cell, or organism and involves inheritance of all genes from one parent |
| Sexual Reprod uction | produces offspring that are similar to the parents but show variations in traits and involves inheritance of unique sets of genes from 2 parents. |

Mendel studied what most?

plants

Transfer RNA molecule

amino acids

Cancer

normal body cells that undergo genetic mutations, lose the ability to control the tempo of their own division, and run amok, causing disease

Codons

A codon is a sequence of three DNA or RNA nucleotides that corresponds with a specific amino acid or stop signal during protein synthesis. DNA and RNA molecules are written in a language of four nucleotides; meanwhile, the language of proteins includes 20 amino acids.

AUG-start codon

| X Linked Genes- | |
|-----------------------|----------------------------------|
| are recessiv | ve |
| | |
| Over All Genetic Flow | |
| DNA->RNA->Protien | |
| | |
| Tumors | |
| Benign | remain at the original site |
| Malignant | spread to other locations called |

metastasis

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| Chromosome | 3 |
|------------------------------------|--|
| Autosomal chromosome s pairs | (1-22) |
| Sex Chromosome | 23rd Pair, only mutations in the sex cells can be passed on to offspring |
| Homologus Chromosome s | are matched in length, centromere position, and gene location. |
| Transcription | vs. Replication |

| inunseription v | |
|-----------------|---------------------------|
| Transcription | copies the DNA into RNA |
| Replication | makes another copy of DNA |

| Purines | vs. Pyrimidines |
|-----------------|---|
| Purines | The two-carbon nitrogen ring bases (adenine and guanine) |
| Pyrimid ines | The one-carbon nitrogen ring bases (thymine and cytosine) |

| Mitosis v | vs. Meiosis |
|-----------|--|
| Mitosis | only has one round of each and the daughter cells are identical to the parent as well as to each other |
| Meiosis | has two rounds of genetic separation and cellular division and homologous chromosomes separate leading to daughter cells that are not genetically identical. |

| Base Pairing Rules | |
|----------------------|--|
| A with T (DNA) | the purine adenine (A) always pairs with the pyrimidine thymine (T) |
| C with G (DNA) | the pyrimidine cytosine (C) always pairs with the purine guanine (G) |
| A with U (RNA) | thymine is replaced by uracil (U) |

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