## 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 |  |
| $\begin{aligned} & \text { Equation: Glucose + Water -> Carbon Dioxide } \\ & \text { + Water + ATP } \end{aligned}$ |  |
| Aerobic Respiration vs. Anaerobic Respiration |  |
| Aerobic a process that uses oxygen <br> Respiration |  |
| Anaerobic <br> Respiration | s that doesn't use |
| two forms of cellular respiration. |  |

## Aerobic Respiration vs. Anaerobic Respiration

| Aerobica process that uses oxygen, takes <br> respiration <br> place in the cytoplasm and the <br> mitochondria, most effeciant |
| :--- |
| Anaerobic <br> espiration process that doesn't use oxygen, <br> takes place in the cytoplasm and <br> 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 <br> the citric acid cycle located? <br> Inner <br> Indrix and <br> Membrane |

[^0]| Reproduction |
| :--- | :--- |
| Asexual produces offspring that are identical <br> Reprod <br> uction <br> to the original cell, or organism and <br> involves inheritance of all genes <br> from one parent  <br> Sexual  <br> Reprod  <br> uction produces offspring that are similar to <br> the parents but show variations in <br> unique sets of genes from 2 parents. <br> Mendel studied what most?  <br> plants   |


| Transfer RNA molecule |
| :--- |
| amino acids |
| Cancer |
| normal body cells that undergo genetic <br> mutations, lose the ability to control the tempo <br> of their own division, and run amok, causing <br> 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


| Tumors |  |
| :--- | :--- |
| Benign | remain at the original site |
| Malignant | spread to other locations called <br> metastasis |

## Not published yet.

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| Chromosomes |  |
| :---: | :---: |
| Autosomal chromosome s pairs | (1-22) |
| Sex <br> 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 |  |
| Transcription | copies the DNA into RNA |
| Replication | makes another copy of DNA |
| Purines vs. Pyrimidines |  |
| Purines | two-carbon nitrogen ring bases nine and guanine) |
| Pyrimid Th ines <br> (th | ne-carbon nitrogen ring bases ine and cytosine) |
| Mitosis vs. Meiosis |  |
| Mitosis on da pa | has one round of each and the hter cells are identical to the nt as well as to each other |
|  | wo rounds of genetic separation cellular division and homologous mosomes separate leading to hter cells that are not tically identical. |
| Base Pairing Rules |  |
| A with the <br> T with <br> (DNA)  | the purine adenine $(A)$ always pairs with the pyrimidine thymine ( T ) |
| C with the <br> G pair <br> (DNA)  | the pyrimidine cytosine ( C ) always pairs with the purine guanine $(G)$ |
| A with thy U (RNA) | thymine is replaced by uracil (U) |

[^1]
[^0]:    By TheyCallMeRy
    cheatography.com/theycallmery/

[^1]:    Sponsored by CrosswordCheats.com
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