ORHS BIOLOGY Protein Synthesis VOCABULARY

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DOC #: V-5

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| RNA (229) | MESSENGER RNA (230) | TRANSFER RNA (230) | RIBOSOMAL RNA (230) |
| Definition: | Definition: | Definition: | Definition: |
| http://cronodon.com/images/RNA_structure.jpg |  | https://www.genome.gov/dmd/previews/85250_large.jpg |  |
| TRANSCRIPTION (230) | URACIL | RIBOSOME (76) | RIBOSE |
| Definition: | In RNA, the base thymine is replaced with the base URACIL. Uracil will bond with Adenine in RNA. | Definition: | The sugar that makes up RNA nucleotides (instead of Deoxyribose in DNA) |
|  | http://www.biology.iupui.edu/biocourses/N100H/images/13uracil.gif | http://cellsorganelles.weebly.com/uploads/1/3/8/0/13802066/3723328_orig.png?233 | http://faculty.southwest.tn.edu/rburkett/GB%20org16.jpg |
| AMINO ACID (49) | PEPTIDE BOND | PROTEIN (49) | CODON (233) |
| Definition: | The bond formed between two amino acids when making a polypeptide or protein | Definition: | Definition: |
| http://www.kcse-online.info/schools/science/add_edex_bio_amino.jpg | http://www.schenectady.k12.ny.us/putman/biology/data/images/translation/peptbond.gif | https://s-media-cache-ak0.pinimg.com/originals/4e/11/26/4e11267635767422b14f365fb089a54a.jpg**PROTEIN** | http://evolution.berkeley.edu/admin/media/2/5600_evo_resources_resource_image_284_small.jpg |
| TRANSLATION (233) | ANTI-CODON (235) | MUTATION (244) | POINT MUTATION (244) |
| Definition: | Definition: | Definition: | Definition: |
| http://www.biologycorner.com/resources/translation01.gif |  | http://translatingscience.pbworks.com/f/1271627118/Mutations_chart.jpg | **Normal:**THE CAT RAN FAR**Mutation:**THE RAT RAN FAR |
| SILENT MUTATION  | INSERTION MUTATION | DELETION MUTATION | FRAMESHIFT MUTATION (244) |
| A point mutation that changes a single DNA base without changing the amino acid coded for- the mutation has no impact on the organism | A type of frameshift mutation where one or more nucleotides are ADDED, disrupting all amino acids after the mutation | A type of frameshift mutation where one or more nucleotides are REMOVED, disrupting all amino acids after the mutation | Definition: |
| http://study.com/cimages/multimages/16/silent-mutation.jpg | **Normal:**  THE CAT RAN FAR**Mutation:** THE CAT BRA NFA R | **Normal:** THE CAT RAN FAR**Mutation:** THE CAT RAF AR | http://www.esciencecentral.org/journals/IJGMimages/2332-0672-1-108-g001.gif |
| HELICASE | **RNA** POLYMERASE (230) | LIGASE | GYRASE |
| The first enzyme in transcription that unzips the double helix by breaking the hydrogen bonds between base pairs. |  | Enzyme that ‘Seals’ the original DNA strand back together following transcription | Causes the DNA strand to twist or wind back into a double helix after transcription |
| http://study.com/cimages/multimages/16/dna-helicase.jpg*Helen the Homewrecker* | http://hyperphysics.phy-astr.gsu.edu/hbase/organic/imgorg/transcbub3.gif*RHONDA the Date Matchmaker* | *Lisa the Love Spell*http://study.com/cimages/multimages/16/ligase.jpg | *Gina*  *the Gymnast*http://cliffsnotescms-v1.prd.techspa.com/assets/24349.jpg |