**AP Biology – Final Exam Vocabulary Terms**

|  |  |
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| **Term** | **Definition** |
| ***Scientific Process*** |  |
| 1. Dependent Variable
 |  |
| 1. Independent Variable
 |  |
| 1. Variable
 |  |
| ***Biochemistry*** |  |
| 1. Amino acid
 |  |
| 1. Amphipathic
 |  |
| 1. Carbohydrate
 |  |
| 1. Denaturation
 |  |
| 1. Hydrogen Bond
 |  |
| 1. Ion
 |  |
| 1. Lipid
 |  |
| 1. Macromolecule
 |  |
| 1. Monomer
 |  |
| 1. Monosaccharide
 |  |
| 1. Non-polar molecule
 |  |
| 1. Nucleic acid
 |  |
| 1. Nucleotide
 |  |
| 1. Phospholipid
 |  |
| 1. Polar molecule
 |  |
| 1. Protein
 |  |
| ***Evolution*** |  |
| 1. Adaptation
 |  |
| 1. Adaptive radiation
 |  |
| 1. Allele
 |  |
| 1. Analogous structure
 |  |
| 1. Artificial selection
 |  |
| 1. Coevolution
 |  |
| 1. Convergent evolution
 |  |
| 1. Founder effect
 |  |
| 1. Gene flow
 |  |
| 1. Gene pool
 |  |
| 1. Genetic bottleneck (bottleneck effect)
 |  |
| 1. Genetic drift
 |  |
| 1. Genotype
 |  |
| 1. Hardy-Weinberg Equation
 |  |
| 1. Phenotype
 |  |
| 1. Phylogeny
 |  |
| 1. Polymorphism
 |  |
| 1. Directional selection
 |  |
| 1. Disruptive selection
 |  |
| 1. Divergent evolution
 |  |
| 1. Endosymbiosis
 |  |
| 1. Evo-devo
 |  |
| 1. Homologous structure
 |  |
| 1. Miller-Urey Experiments
 |  |
| 1. Molecular clock
 |  |
| 1. Mutation
 |  |
| 1. Reproduction isolation
 |  |
| 1. Rock strata
 |  |
| 1. Speciation
 |  |
| 1. Vestigial Organ
 |  |
| ***Classification & Biological Diversity*** |  |
| 1. Archaea
 |  |
| 1. Bacteria
 |  |
| 1. Eukarya
 |  |
| 1. Monophyletic
 |  |
| 1. Order
 |  |
| 1. Paraphyletic
 |  |
| 1. Phylogenetic tree
 |  |
| 1. Phylogeny
 |  |
| 1. Phylum
 |  |
| 1. Polyphyletic
 |  |
| ***Cells*** |  |
| 1. Active Transport
 |  |
| 1. Apoptosis
 |  |
| 1. Aquaporin
 |  |
| 1. Carrier protein
 |  |
| 1. Centrioles
 |  |
| 1. Channel Protein
 |  |
| 1. Cyclic AMP (cAMP)
 |  |
| 1. Concentration gradient
 |  |
| 1. Endoplasmic reticulum
 |  |
| 1. Glycolipid
 |  |
| 1. Glycoprotein
 |  |
| 1. Hormone
 |  |
| 1. Hypertonic
 |  |
| 1. Hypotonic
 |  |
| 1. Ion pump
 |  |
| 1. Isotonic
 |  |
| 1. Ligand
 |  |
| 1. Lysosome
 |  |
| 1. Plasmolysis
 |  |
| 1. Protein Kinase
 |  |
| 1. Receptor
 |  |
| 1. Rough ER
 |  |
| 1. Selectively permeable
 |  |
| 1. Signal transduction pathway
 |  |
| 1. Smooth ER
 |  |
| 1. Exocytosis
 |  |
| 1. Facilitated diffusion
 |  |
| 1. Phagocytosis
 |  |
| 1. Transmembrane protein
 |  |
| 1. Turgor
 |  |
| ***Cell Division*** |  |
| 1. Anaphase
 |  |
| 1. Cancer
 |  |
| 1. Cell cycle
 |  |
| 1. Cellular differentiation
 |  |
| 1. Centrioles
 |  |
| 1. Chromosome
 |  |
| 1. Crossing over
 |  |
| 1. Cyclin-dependent kinase
 |  |
| 1. Cytokinesis
 |  |
| 1. Fertilization
 |  |
| 1. Gamete
 |  |
| 1. Haploid
 |  |
| 1. Homologous chromosomes
 |  |
| 1. Independent assortment
 |  |
| 1. Interphase
 |  |
| 1. Meiosis
 |  |
| 1. Metaphase
 |  |
| 1. Mitosis
 |  |
| 1. Somatic cell
 |  |
| 1. Synapsis
 |  |
| 1. Telophase
 |  |
| ***Molecular Genetics*** |  |
| 1. Anticodon
 |  |
| 1. Codon
 |  |
| 1. DNA
 |  |
| 1. DNA ligase
 |  |
| 1. DNA Polymerase
 |  |
| 1. Exons
 |  |
| 1. Gene Induction
 |  |
| 1. Gene Repression
 |  |
| 1. Helicase
 |  |
| 1. HOX genes
 |  |
| 1. Hydrogen bonding
 |  |
| 1. Inducible genes
 |  |
| 1. Introns
 |  |
| 1. Lac operon
 |  |
| 1. miRNA
 |  |
| 1. Morphogenesis
 |  |
| 1. Okazaki fragments
 |  |
| 1. Polymerase chain reaction
 |  |
| 1. Restriction enzyme
 |  |
| 1. RNAi
 |  |
| 1. siRNA
 |  |
| 1. Transcription
 |  |
| 1. Translation
 |  |
| ***Mendelian Genetics*** |  |
| 1. Autosome
 |  |
| 1. Codominance
 |  |
| 1. Dihybrid cross
 |  |
| 1. Incomplete dominance
 |  |
| 1. Independent assortment
 |  |
| 1. Multiple alleles
 |  |
| 1. Non-disjunction
 |  |
| 1. Pedigree
 |  |
| 1. Test Cross
 |  |
| ***Metabolism*** |  |
| 1. Acetyl coA
 |  |
| 1. Activation energy
 |  |
| 1. Active site
 |  |
| 1. ATP
 |  |
| 1. Calvin Cycle
 |  |
| 1. Catabolism
 |  |
| 1. Catalyst
 |  |
| 1. Cellular respiration
 |  |
| 1. Chemiosmosis
 |  |
| 1. Citric acid cycle
 |  |
| 1. Electron transport chain
 |  |
| 1. Endergonic reaction
 |  |
| 1. Enzyme
 |  |
| 1. Exergonic reaction
 |  |
| 1. Fermentation
 |  |
| 1. Glycolysis
 |  |
| 1. Negative feedback
 |  |
| 1. Oxidative phosphorylation
 |  |
| 1. Photolysis
 |  |
| 1. Positive feedback
 |  |
| ***Physiology*** |  |
| 1. Action potential
 |  |
| 1. Circadian Rhythm
 |  |
| 1. Insulin
 |  |
| 1. Refractory period
 |  |
| 1. Diabetes
 |  |
| 1. Ectothermic
 |  |
| 1. Endothermic
 |  |
| 1. Glucagon
 |  |
| 1. Guard cells
 |  |
| 1. Homeostasis
 |  |
| 1. Mesophyll
 |  |
| 1. Motor neuron
 |  |
| 1. Myelin
 |  |
| 1. Neuron
 |  |
| 1. Neurotransmitter
 |  |
| 1. Nodes of Ranvier
 |  |
| 1. Phloem
 |  |
| 1. Photoperiodism
 |  |
| 1. Resting potential
 |  |
| 1. Schwann cells
 |  |
| 1. Sensory neuron
 |  |
| 1. Synapse
 |  |
| 1. Transpiration
 |  |
| 1. Xylem
 |  |
| ***Ecology*** |  |
| 1. Abiotic factor
 |  |
| 1. Biotic factor
 |  |
| 1. Carrying capacity
 |  |
| 1. Decomposer
 |  |
| 1. Imprinting
 |  |
| 1. Introduced species
 |  |
| 1. Nitrogen cycle
 |  |
| 1. Detritvore
 |  |
| 1. Ecological Niche
 |  |
| 1. Ecological succession
 |  |
| 1. Exponential growth
 |  |
| 1. Logistic growth
 |  |
| 1. Mutualism
 |  |
| 1. Symbiosis
 |  |