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Molecular Biology

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| **Across**  **2.** lays down RNA primer for replication  **4.** to copy DNA  **5.** carbon compounds composed of carbon, hydrogen, and oxygen; used as short term energy storage  **7.** triplet of mRNA that codes for amino acids for protein synthesis  **9.** messenger RNA, copies the DNA code and moves it to the ribosome  **16.** purine that pairs with thymine  **17.** subunits of proteins; composed of carbon, hydrogen, oxygen, and nitrogen (and sometimes sulphur)  **19.** the sum of all chemical reactions that occur in an organism  **20.** double stranded double helix, ATCG bases, nucleic acid  **22.** the part of metabolism in which larger molecules are broken down into smaller ones  **23.** double ring; purine; that pairs with cytosine  **24.** chains of subunits called nucleotides; RNA and DNA  **26.** carbon compounds composed of one or more chains of amino acids  **27.** The process of making proteins  **28.** pyrimidine (single ring) that pairs with adenine  **29.** DNA strands run in opposite directions  **30.** made continuously | **Down**  **1.** TATA box, regions that encourage transcription  **3.** non coding regions that are excised  **6.** amino acids are held together by peptide bonds. A strand of amino acids are polypeptides or protiens  **8.** sub unit of nucleic acid (monomer) made of 5 carbon sugar, phosphate, nitrogenous base  **10.** happens at the ribosome mRNA- Amino acids- proteins  **11.** Happens in the nucleus, making mRNA from DNA  **12.** unzips DNA helix  **13.** the part of metabolism in which chemical reactions build up larger molecules from smaller ones  **14.** single stranded, AUCG bases, nucleic acid  **15.** broad class of carbon compounds that are insoluble in water; includes fatty acids, triglycerides, steroids, and waxes  **18.** determined by watson and crick; structure of DNA  **21.** subunits of nucleic acids; composed of carbon, hydrogen, oxygen, nitrogen, and phosphorus  **25.** single ring base, pyrimidine, that pairs with guanine |