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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 |