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mutations, mutagens, cancer, carcinogens, stem cells, and genetics

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| **Across**  **1.** one allele is not completely dominate over the other  **3.** wrong bases matched up  **6.** influenced by several genes  **11.** influenced by several genes  **12.** base is removed  **13.** travel to a new area, divide  **15.** blend in between  **16.** base is added  **17.** genetic material coding for a specific trait  **19.** differentiate between cell types, regrow and reproduce  **21.** change of genetic material  **22.** physical or chemical agent that can change the genetic makeup of an organism  **23.** can break through boundaries  **24.** DNA duplicates during interphase, makes a mistake during meiosis | **Down**  **2.** trait is determined by more than two alleles  **4.** cells dividing uncontrollably and can happen in any type of cell  **5.** a powerful drug that kills all types of cells, to remove cancer  **7.** variation of genes  **8.** treatment directly targeting a specific tumor  **9.** exposure to ionizing and radiation  **10.** cancer causing agent  **14.** removal of tumor to prevent it from spreading  **18.** traits passed down through dominate and recessive genes  **20.** both alleles are expressed at the same time |

   mutation       internal factors       external factors       mutagen       substitution       deletion       insertion       cancer       carcinogen       malignant       metastasis        chemotherapy       radiation therapy       surgery       stem cells       genes       alleles       multiple alleles       polygenic trait       polygenic trait       mendelian gene       codominance       incomplete dominance       phenotype