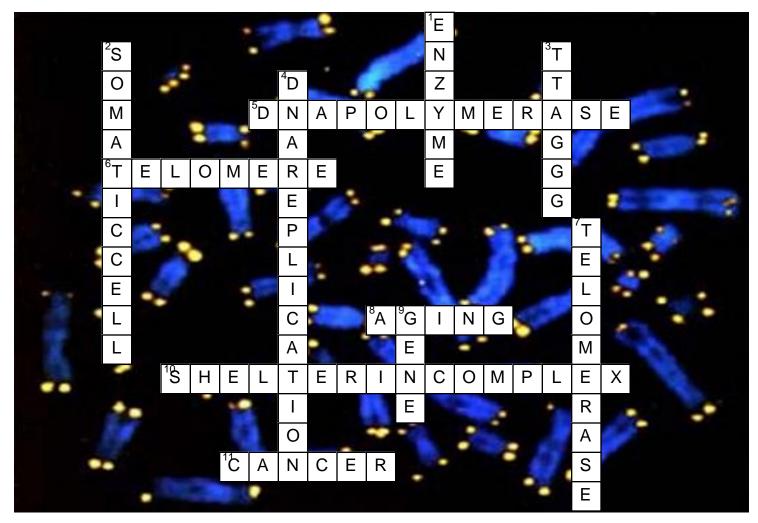
Telomere Attrition



Across

- 5. Enzymes that create DNA molecules by assembling nucleotides, essential to DNA replication. [DNAPOLYMERASE]
- 6. A region of repetitive nucleotide sequences at each end of a chromosome and protects this from deterioration. [TELOMERE]
- 8. A process of growing old or developing the appearance and characteristics of old age. [AGING]
- 10. A complex of six proteins that safeguard the integrity of telomeres and regulate telomerase activity. [SHELTERINCOMPLEX]
- A group of deseases involving abnormal cell growth with the potential to invade or spread to other parts of the body. [CANCER]

Down

- 1. A macromolecule which catalyzes chemical reactions. [ENZYME]
- 2. Any biological cell forming the body of an organism. [SOMATICCELL]
- 3. The sequence of nucleotides in telomeres repeated approximately 2500 times in humans. [TTAGGG]
- 4. Creation of two identical DNA strands fron a single original DNA molecule. [DNAREPLICATION]
- 7. An enzyme that adds repeated DNA sequences to the 3' end of DNA strands in the telomere regions. [TELOMERASE]
- 9. A specific sequence of DNA that provides the coded instructions for the production of RNA which, when traslated into proteins, controls development and growth. [GENE]