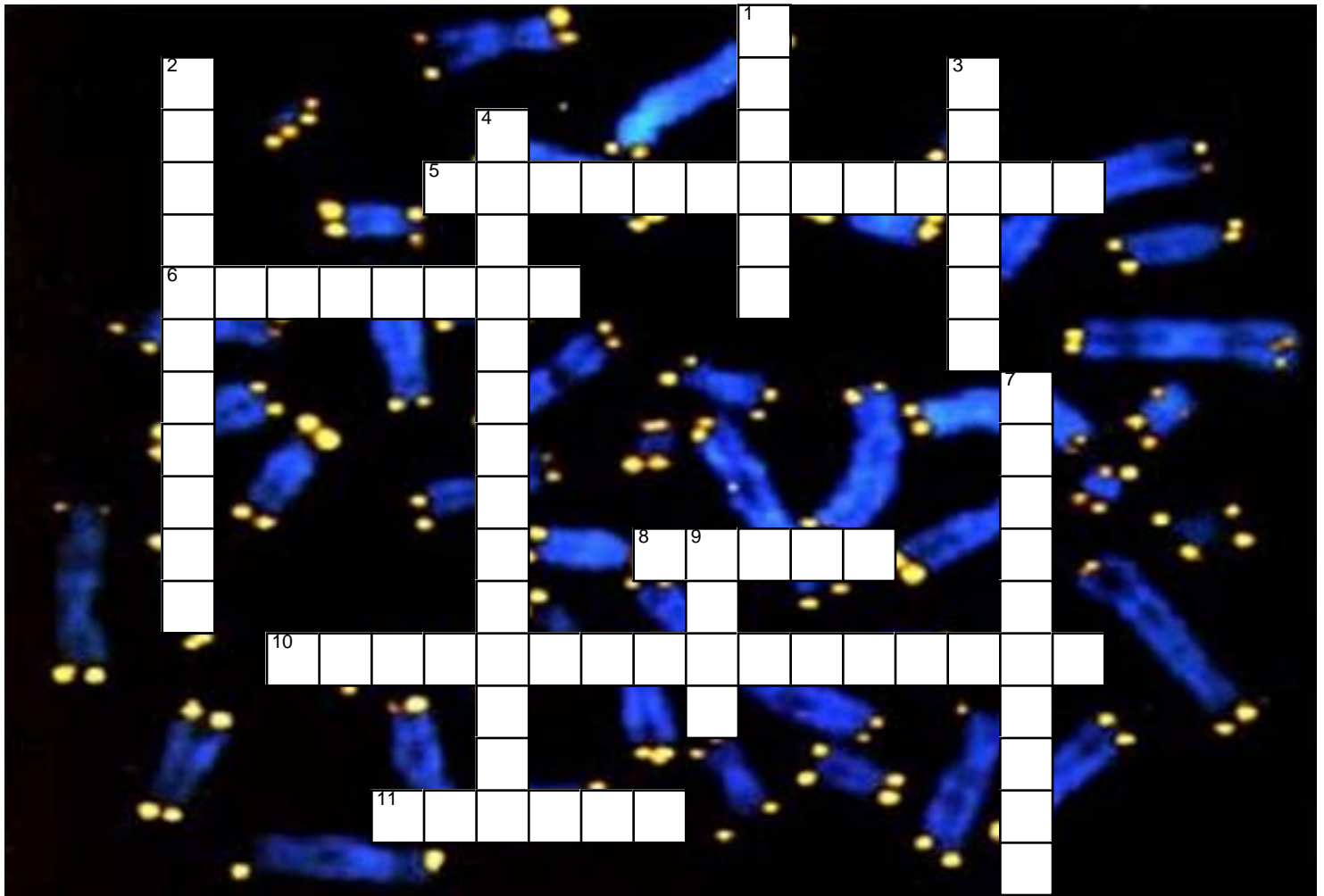


Telomere Attrition



Across

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

Down

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