

# BIOL01113 Vocabulary Assignment 13

Aidan Sharpe

April 28th, 2025

**Nucleotides** Organic molecules composed of a nitrogenous base, a pentose sugar and a phosphate.

**Complimentary bases** A relationship between two DNA bases, each following the lock-and-key principle

**Helix** The shape of a cylindrical coil.

**DNA template** The original, now separated, strands of DNA that new nucleotides pair to.

**DNA polymerase** A family of enzymes that catalyze the synthesis of DNA molecules from nucleoside triphosphates, the molecular precursors of DNA.

**Ribose** A simple sugar and carbohydrate, a component of the ribonucleotides from which RNA is built.

**RNA polymerase** An enzyme that catalyzes the chemical reactions that synthesize RNA from a DNA template.

**mRNA** A single-stranded molecule of RNA that corresponds to the genetic sequence of a gene, and is read by a ribosome in the process of synthesizing a protein.

**rRNA** A type of non-coding RNA which is the primary component of ribosomes.

**tRNA** An adaptor molecule composed of RNA, that provides the physical link between the genetic code in messenger RNA (mRNA) and the amino acid sequence of proteins, carrying the correct sequence of amino acids to be combined by the protein-synthesizing machinery, the ribosome.