

# Glossary of Biotechnology Terms

- **complementary DNA (cDNA):** a DNA sequence which was produced from [mRNA](#) by [reverse transcription](#). A cDNA is so-called because its sequence is the [complement](#) of the original mRNA sequence. However, when [double-stranded](#) cDNA is synthesized, it contains both the original sequence and its complement.
- **cDNA library:** a collection of [cDNA's](#), each of which has been inserted in a DNA [vector](#) (e.g. a circular DNA plasmid) and replicated in a bacterium such as *E. coli*. The bacteria maintain a ready pool of the cDNA's and can be cultured to make copies of the library for many experiments. A population of bacteria containing a single inserted cDNA is called a *clone*. To extract a cDNA from the library, the insert from the corresponding clone can be amplified using [PCR](#) primed off the vector sequences connected to the ends of the cDNA.
- **complement:** The complement of a nucleic acid sequence replaces each base by its complementary base: adenine (A) by thymidine (T), cytosine (C) by guanine (G), and vice versa. In RNA, adenine is paired not with thymidine but with uracil (U). By convention, DNA and RNA molecules have a consistent orientation (5' to 3') which is used in writing their sequences. To preserve this orientation, the complement of a sequence is written backwards compared to the original. For example, an RNA sequence ACGGUACU has the DNA complement AGTACCGT.
- **constitutively active:** A constitutively active gene is always transcribed, regardless of any regulatory influences. Many, perhaps most genes are constitutively transcribed at some (possibly low) level; however, the level of transcription can be turned up or down by the action of [regulatory genes](#).
- **double-stranded:** consisting of two bound strands, each of which is the [complement](#) of the other. DNA is usually double-stranded, while mRNA is not.
- **emission wavelength:** the wavelength of the light emitted by a fluorescent [reporter](#) molecule when stimulated by a laser at its characteristic [excitation wavelength](#).
- **excitation wavelength:** the wavelength of the light required to stimulate emission by a fluorescent [reporter](#) molecule.
- **expressed sequence tag (EST):** a sequence from a transcribed [mRNA](#) for a possibly unknown gene. Individual EST's are neither especially informative nor highly accurate; however, they are easy to collect in large numbers. A database of EST's can be helpful for picking protein-coding sequences out of a long stretch of DNA, or for providing a larger context for very short sequences, such as the small pieces of protein sequence obtainable by mass spectrometry. EST's are compiled by the [National Center for Biotechnology Information](#) in a database called [dbEST](#).
- **gene transcription:** the process by which a gene's DNA is read to produce [messenger RNA](#).
- **genetically heterogeneous:** caused by more than one genetic factor that leads to the same [phenotype](#). Many cancers, as well as other genetic diseases like type-I diabetes, are genetically heterogeneous. Note that this term is used when different genetic defects can *independently* cause disease. When multiple defective genes must combine to cause a disease, we say that they act in *epistasis*.
- **genome:** the collection of all genes in a cell. In a multicellular organism, every cell has a copy of the same genome, but not all cells express the same genes.
- **hybridize:** to bind complementary pairs of DNA molecules. A DNA molecule has a very strong preference for its sequence [complement](#), so just mixing complementary sequences is enough to induce them to hybridize. Hybridization is temperature

# Glossary Of Biotechnology Terms

**Kimball R. Nill**



## **Glossary Of Biotechnology Terms:**

## Whispering the Techniques of Language: An Mental Quest through **Glossary Of Biotechnology Terms**

In a digitally-driven world wherever screens reign supreme and instant conversation drowns out the subtleties of language, the profound techniques and emotional subtleties concealed within words frequently go unheard. Yet, nestled within the pages of **Glossary Of Biotechnology Terms** a interesting literary treasure sporting with organic emotions, lies a fantastic quest waiting to be undertaken. Composed by an experienced wordsmith, this charming opus invites readers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within ab muscles material of each and every word. Within the emotional depths of this touching review, we can embark upon a honest exploration of the book is core subjects, dissect their fascinating writing fashion, and yield to the effective resonance it evokes serious within the recesses of readers hearts.

<http://www.pet-memorial-markers.com/public/virtual-library/Documents/Essential%20Agus%20The%20Writings%20Of%20Jacob%20B%20Agus.pdf>

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