

# 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-1 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 Nill**



## **Glossary Of Biotechnology Terms:**

Glossary of Biotechnology Terms, Fourth Edition Kimball Nill, 2005-11-16 Even if you studied biotechnology in school if you haven't stayed current it's not likely you'll be able to speak the same language as today's biotech scientists. The same is even truer for nanotechnology where everything gets smaller and smaller except the terminology required to navigate it. In the Glossary of Biotechnology and Nanobiotechnology Terms Fourth Edition Kimball Nill continues to improve upon the reference that for over a decade has helped thousands of professionals including scientists, attorneys, government workers, lobbyists, venture capitalists, and university tech transfer staff to communicate successfully with those working on the cutting edge of modern science. Now in its fourth edition Nill has taken the much appreciated step of adding nanotechnology to his glossary. Just by casually perusing the Glossary of Biotechnology and Nanobiotechnology Terms Fourth Edition you will learn a number of enlightening facts. Even those in related sciences will be surprised to discover what the language unveils. The Glossary of Biotechnology and Nanobiotechnology Terms Fourth Edition is a handy reference designed for people with little or no training in the biological and chemical sciences as well as scientists communicating from other disciplines. Unlike other glossaries, this one is both informative and completely accessible. Instead of looking up one term to end up mired in equally difficult terminology, this intelligently designed volume follows what the author refers to as a Reference Chain that steadily leads you to simpler, more common terminology down to a level that anyone with a high school education will be able to understand. The definitions are written utilizing words that enable you to conceptualize the idea embodied in the term with explanations based on analogy whenever possible. Consider this example: Suppose you just received a funding request, a faculty memo, or patent concern that refers to A DNA. Which happens to be the first definition in the Glossary: A DNA, A particular right-handed helical form of DNA possessing 11 base pairs per turn which is the form that DNA molecules exist in when they are partially dehydrated. A form DNA is found in fibers at 75% relative humidity and requires the presence of sodium, potassium, or cesium as the counterion. Instead of lying flat, the bases are tilted with respect to the helical axis and there are more base pairs per turn. The A form is biologically interesting because it is probably very close to the conformation adopted by DNA-RNA hybrids or by RNA-RNA double-stranded regions. The reason is that the presence of the 2'-OH group prevents RNA from lying in the B form. See also B-DNA, DNA-RNA HYBRID, DEOXYRIBONUCLEIC ACID, DNA BASE PAIR, bp. But then after looking at the above definition you wonder what exactly is a DNA-RNA Hybrid. DNA-RNA Hybrid, A double helix that consists of one chain of DNA hydrogen bonded to a chain of RNA by means of complementary base pairs. See also HYBRIDIZATION, MOLECULAR GENETICS, HYBRIDIZATION, PLANT GENETICS, DOUBLE HELIX. However, while you've often heard mention of a double helix, you were never quite sure what that meant. Double Helix, The natural coiled conformation of two complementary antiparallel DNA chains. This structure was first put forward by Watson and Crick in 1953. See also DEOXYRIBONUCLEIC ACID, DNA. And that might bring you to ask, Do you really actually know what DNA is?

Deoxyribonucleic Acid DNA Discovered by Frederick Miescher in 1869 it is the chemical basis for genes The chemical building blocks molecules of which genes i e paired nucleotide units that code for a protein to be produced by a cell s machinery such as its ribosomes are constructed Every inherited characteristic has its origin somewhere in the code of the organism s complement of DNA The code is made up of subunits called nucleic acids The sequence of the four nucleic acids is interpreted by certain molecular systems in order to produce the proteins required by an organism The structure of the DNA molecule was elucidated in 1953 The Glossary of Biotechnology and Nanobiotechnology Terms Fourth Edition is packed with over 400 pages of exceptionally well organized and cross referenced terminology making it an essential reference for anyone working directly or indirectly with those pioneering the frontiers of modern biology *Glossary of Biotechnology Terms* Kimball Nill,2010-12-12 As a result of biotechnology becoming such a highly prolific area non technical people such as lobbyists attorneys marketing and public relations people have had to quickly become conversant about a topic that is highly technical In addition various specialists working in the field of biotechnology including chemists geneticists and biologists occasionally have difficulty in understanding the terms utilized by each other in their respective specialties It is therefore necessary to have a book to which you can refer so everyone can clearly discuss the topics in biotechnology This text provides concise definitions of terms for persons unfamiliar with biotechnology and clarifies new terms and how they are being used for those who are already somewhat conversant in the area The Glossary of Biotechnology Terms is a handy reference for people with little or no training in the biological and chemical sciences because it has been written in non technical language and serves to bring you up to date on biotechnology terminology to provide for more effective communication The definitions are written utilizing words that enable you to conceptualize the idea embodied in the term and explanations are based on analogy whenever possible Written to assist those individuals who seek to gain an understanding of the terminology as it is currently used the Glossary of Biotechnology Terms Third Edition is compulsory for anyone involved in the biotechnology field or anyone who deals with professionals in biotechnology **Glossary of Biotechnology Terms** Kimball R. Nill,2001 **Glossary of Biotechnology & Agrobiotechnology Terms** Kimball Nill,2016-09-15 The 5th edition of Glossary of Biotechnology and Agrobiotechnology Terms will be a significant expansion of the previous 4th edition In the past decade many new terms have been introduced due to the appearance and application of new crop plant breeding methods as well as technical advances in genetics molecular biology cell biology and agricultural research The terms associated with important new technologies have been added to this new edition including terms related to Zinc Finger Proteins Transcription Activator Like Effectors TALEs TALE Nucleases Genome Editing CRISPR Cas 9 Gene editing Systems Oligonucleotide mediated Mutagenesis and RNA Interference as well as hundreds of others The 5th edition like previous editions will be useful for regulators of agricultural biotechnology around the world customers biotech patent officials venture capitalists and agbiotech company executives as well as biopharmaceutical industries and academics

**Glossary of Biotechnology and Agrobiotechnology Terms** Kimball R. Nill, 2017 The 5th edition of Glossary of Biotechnology and Agrobiotechnology Terms will be a significant expansion of the previous 4th edition In the past decade many new terms have been introduced due to the appearance and application of new crop plant breeding methods as well as technical advances in genetics molecular biology cell biology and agricultural research The terms associated with important new technologies have been added to this new edition including terms related to Zinc Finger Proteins Transcription Activator Like Effectors TALEs TALE Nucleases Genome Editing CRISPR Cas 9 Gene editing Systems Oligonucleotide mediated Mutagenesis and RNA Interference as well as hundreds of others The 5th edition like previous editions will be useful for regulators of agricultural biotechnology around the world customers biotech patent officials venture capitalists and agbiotech company executives as well as biopharmaceutical industries and academics *Glossary of Biotechnology Terms, Second Edition* Kimball R. Nill, 1998-04-17 In the fast paced field of biotechnology it is important to keep current with the latest terminology Now in its second edition the Glossary of Biotechnology Terms has been updated to aid in effective communication among those in and around the biotechnology field Almost double in size from the first the second edition of this comprehensive guide is packed with over 2 000 definitions Written for a global audience the new edition now contains metric units and international symbols This volume has been updated to include all the biotech developments that have occurred since its last publication in 1993 Much more than definitions the Glossary provides a detailed history of the field of biotechnology making it a convenient source of information for both novices and professionals alike The Glossary of Biotechnology Terms serves as a handy reference for those with little or no training in the bio and chemical sciences because it has been written in non technical language The book uses a sequential reference chain that allows the reader to stop once he or she has reached a satisfactory level of understanding or continue on to more basic simpler definitions Since everyone has a different understanding of biotechnical terminology based on his or her experiences the Glossary accommodates a wide range of audience needs Bring your bio vocabulary up to date with the Glossary of Biotechnology Terms Second Edition This easy to use reference will be a valuable addition to your professional library Useful for all those involved in the biotechnology field including Scientists and Engineers Support Staff Attorneys Hospital Workers Drug Manufacturing Companies Health Care Professionals Financial Analysts High School Students and Teachers University Students and Professors Human Resource Personnel Marketing and Sales Staff In the second edition you ll find 1 Over 2000 definitions written as non technically as possible 2 All the biotech developments that have occurred since 1993 3 Metric units and international symbols 4 A convenient source of information for both novices and professionals alike [Glossary of Biotechnology and Nanobiotechnology Terms](#) Kimball R. Nill, 2006 [Glossary of Agricultural Biotechnology](#) Gurbachan Singh Miglani, Parveen Chhuneja, Satbir Singh Gosal, 2025-02-25 The rapid progress in molecular genetic techniques and molecular biology has led to a great expansion in the range of biotechnology applications in agriculture The field is supported by a large number of

basic and applied sciences and agricultural biotechnology has become a multidisciplinary field. A vast amount of technical terms is required to be grasped by students, teachers and research workers, and this new Glossary of Agricultural Biotechnology covers all the scientific areas in this important field, including agricultural biotechnology, artificial intelligence, bioinformatics, biostatistics, cell biology, computer science, CRISPR/Cas, cytogenetics, DNA nanotechnology, epigenetics, epigenomics, genetics, genome editing, genomics, intellectual property rights, molecular biology, molecular genetics, nanobiotechnology, plant breeding, plant pathology, plant physiology, remote sensing, therapeutics, and tissue culture. This book is designed to be an easy-to-use reference for students, teachers, research workers, workers in biotechnology-related government agencies, and the biotechnology industry.

**FAO Research and Technology Paper**, 1986      **Glossary of Biotechnology Terms**, 2000\*      *FAO Research and Technology Paper*, 1986      *A Glossary of Biotechnology Terms, Defined for the Layman* Kimball R. Nill, 1989      **Glossary of Biotechnology for Food and Agriculture** Abdelouahhab Zaid, Food and Agriculture Organization of the United Nations, 2001. This Glossary of biotechnology for food and agriculture is a revised augmented version of the Glossary of Biotechnology and Genetic Engineering published by FAO in 1999. The preface of the previous edition clearly stated the reason for the immediate need to undertake a complete revision, namely the swiftness of change in the sector, constant evolving terminology, and difficulty to remain abreast of technological evolution.

**A Multilingual Glossary of Biotechnological Terms** Hans-Georg W. Leuenberger, Bertrand Nagel, Heinz Kölbl, 1995. This book contains alphabetical entries of around 230 biotechnological terms frequently used in publications. The choice of terms and the type of definitions addresses in particular the community of chemists and chemical engineers. In this book, an English term appears with translations into six languages in the same volume.

**Scientific and Technical Terms in Bioengineering and Biological Engineering** Megh R. Goyal, 2018-01-03. This immensely valuable book provides a comprehensive, easy-to-understand and up-to-date glossary of technical and scientific terms used in the fields of bioengineering and biotechnology, including terms used in agricultural sciences. The volume also includes terms for plants, animals, and humans, making it a unique, complete, and easily accessible reference. **Scientific and Technical Terms in Bioengineering and Biological Engineering** opens with an introduction to bioengineering and biotechnology and presents an informative timeline covering the important developments and events in the fields dating from 7000 AD to the present, and it even makes predictions for developments up to the year 2050. From *ab initio* gene prediction to zymogen and from *Agrobacterium* to zoonosis, this volume provides concise definitions for over 5400 specialized terms peculiar to the fields of bioengineering and biotechnology, including agricultural sciences. The use of consistent terminology is critical in presenting clear and meaningful information, and this helpful reference manual will be essential for graduate and undergraduate students of biomedical engineering, biotechnology, nanotechnology, nursing, and medicine and health sciences, as well as for professionals who work with medicine and health sciences.

**Biotechnology** Raymond Dobert, 1998. Provides sources of

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## Decoding **Glossary Of Biotechnology Terms**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Glossary Of Biotechnology Terms**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### **Table of Contents Glossary Of Biotechnology Terms**

1. Understanding the eBook Glossary Of Biotechnology Terms
  - The Rise of Digital Reading Glossary Of Biotechnology Terms
  - Advantages of eBooks Over Traditional Books
2. Identifying Glossary Of Biotechnology Terms
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Glossary Of Biotechnology Terms
  - User-Friendly Interface
4. Exploring eBook Recommendations from Glossary Of Biotechnology Terms
  - Personalized Recommendations
  - Glossary Of Biotechnology Terms User Reviews and Ratings
  - Glossary Of Biotechnology Terms and Bestseller Lists

5. Accessing Glossary Of Biotechnology Terms Free and Paid eBooks
  - Glossary Of Biotechnology Terms Public Domain eBooks
  - Glossary Of Biotechnology Terms eBook Subscription Services
  - Glossary Of Biotechnology Terms Budget-Friendly Options
6. Navigating Glossary Of Biotechnology Terms eBook Formats
  - ePub, PDF, MOBI, and More
  - Glossary Of Biotechnology Terms Compatibility with Devices
  - Glossary Of Biotechnology Terms Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Glossary Of Biotechnology Terms
  - Highlighting and Note-Taking Glossary Of Biotechnology Terms
  - Interactive Elements Glossary Of Biotechnology Terms
8. Staying Engaged with Glossary Of Biotechnology Terms
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Glossary Of Biotechnology Terms
9. Balancing eBooks and Physical Books Glossary Of Biotechnology Terms
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Glossary Of Biotechnology Terms
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Glossary Of Biotechnology Terms
  - Setting Reading Goals Glossary Of Biotechnology Terms
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Glossary Of Biotechnology Terms
  - Fact-Checking eBook Content of Glossary Of Biotechnology Terms
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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