

Volume One: Scientific Fundamentals of Biotechnology

Third Edition

# Comprehensive Biotechnology

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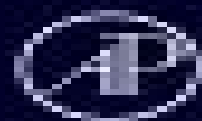
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# Comprehensive Biotechnology

**Xiaolong Qi**



## **Comprehensive Biotechnology:**

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The advent of biotechnology has the potential to develop a variety of novel or better quality products for the treatment of a large number of diseases in livestock In addition as we understand more about the reproductive physiology of animals the potential exists to dramatically increase the productivity of animals through better therapeutics and diagnostics for the control of many infectious diseases Productivity can also be increased through animal breeding strategies including gene transfer micromanipulation of embryos and gamete sex selection As well as being a valuable reference to current knowledge in these areas this first supplement to Comprehensive Biotechnology also looks at societal concerns over the use of antibiotics and chemical residues in meat and milk products which are forcing biotechnologists to investigate more natural means of controlling infection by stimulating the animal s own immune system to combat infection The identification of a variety of cytokines which are involved in regulating immune responses provides opportunities to use the animal s natural defence mechanisms to combat many infections or increase the animal s resistance to such infections These approaches should provide tools for eventual elimination of specific diseases from counties regions or whole continents

*Comprehensive Biotechnology: Medical biotechnology and healthcare* Murray Moo-Young,2011-01-01

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**Comprehensive Biotechnology: Agricultural and related biotechnologies** Murray Moo-Young,2011-01-01  
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**Comprehensive Biotechnology Third Edition Six Volume Set** unifies in a single source a huge amount of information in this growing field The book covers scientific fundamentals along with engineering considerations and applications in industry agriculture medicine the environment and socio economics including the related government regulatory overviews This new edition builds on the solid basis provided by previous editions incorporating all recent advances in the field since the second edition was published in 2011 Offers researchers a one stop shop for information on the subject of biotechnology Provides in depth treatment of relevant topics from recognized authorities including the contributions of a Nobel laureate Presents the perspective of researchers in different fields such as biochemistry agriculture engineering biomedicine and environmental science  
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Biotechnology is defined as the evaluation and use of biological agents and materials in the production of goods and services for industry trade and commerce In this four volume set there are two main divisions of the subject matter an academic coverage of the disciplinary underpinnings of the field in Volumes 1 and 2 followed by a practical view of the various processes and products in Volumes 3 and 4 In the integration of these two areas other common factors

dealing with product quality process economics and government policies are introduced at appropriate points throughout all four volumes Volume 1 specifically delineates and integrates the unifying multidisciplinary principles in terms of relevant genetic biological chemical and biochemical fundamentals As in the other volumes a glossary of terms and nomenclature guidelines is included to assist both the beginner and the non specialist

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