

Volume One: Scientific Fundamentals of Biotechnology

Third Edition

Comprehensive Biotechnology

Edited by

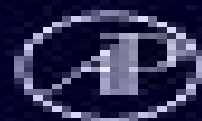
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Comprehensive Biotechnology Supplement Series Comprehensive Biotechnology Supplement Series Staf, [Comprehensive biotechnology](#) Murray Moo-Young,1985 *Comprehensive Biotechnology* Murray Moo-Young,2011 [Animal Biotechnology](#) L.A. Babiuk,J.P. Phillips,Murray Moo-Young,2013-10-22

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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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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