

Volume One: Scientific Fundamentals of Biotechnology

Third Edition

Comprehensive Biotechnology

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L.A. Babiuk, J.P. Phillips, Murray Moo-Young

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Comprehensive Biotechnology, 2011-08-26 The second edition of Comprehensive Biotechnology Six Volume Set continues the tradition of the first inclusive work on this dynamic field with up to date and essential entries on the principles and practice of biotechnology The integration of the latest relevant science and industry practice with fundamental biotechnology concepts is presented with entries from internationally recognized world leaders in their given fields With two volumes covering basic fundamentals and four volumes of applications from environmental biotechnology and safety to medical biotechnology and healthcare this work serves the needs of newcomers as well as established experts combining the latest relevant science and industry practice in a manageable format It is a multi authored work written by experts and vetted by a prestigious advisory board and group of volume editors who are biotechnology innovators and educators with international influence All six volumes are published at the same time not as a series this is not a conventional encyclopedia but a symbiotic integration of brief articles on established topics and longer chapters on new emerging areas Hyperlinks provide sources of extensive additional related information material authored and edited by world renown experts in all aspects of the broad multidisciplinary field of biotechnology Scope and nature of the work are vetted by a prestigious International Advisory Board including three Nobel laureates Each article carries a glossary and a professional summary of the authors indicating their appropriate credentials An extensive index for the entire publication gives a complete list of the many topics treated in the increasingly expanding field

Comprehensive Biotechnology, 2019-07-17 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

Comprehensive Biotechnology KG Ramawat | Shaily Goyal, 2004 For B Sc and M Sc Students of Different Indian Universities as per UGC Model Curriculum This is revised edition of the book Plant Biotechnology Several new topics such as Aquaporins Artificial intelligence Automation in Micropropagation Biochips Green House Hydroponic Inteins Nanotechnology Space Biotechnology Supercritical Fluid extraction etc have been included in this revised This edition provides latest information on the frontier area of biotechnology

Comprehensive Biotechnology: The principles of biotechnology Murray Moo-Young, 1985 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

Comprehensive Biotechnology Supplement Series
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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

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