

ADVANCES IN
APPLIED MICROBIOLOGY
VOLUME 38

Advances In Applied Microbiology Volume 36

Romeela Mohee, Ackmez Mudhoo



Advances In Applied Microbiology Volume 36:

Advances in Applied Microbiology, 1991-07-15 *Advances in Applied Microbiology Aquatic Toxicology and Hazard Assessment* Rita Comotto Bahner, 1985 **AMRL-TR.**, 1965 Books in Print Supplement, 1994 Bioremediation and Sustainability Romeela Mohee, Ackmez Mudhoo, 2012-04-02 Bioremediation and Sustainability is an up to date and comprehensive treatment of research and applications for some of the most important low cost green emerging technologies in chemical and environmental engineering Sustainable development requires the development and promotion of environmental management and a constant search for green technologies to treat a wide range of aquatic and terrestrial habitats contaminated by increasing anthropogenic activities with the main sources of contaminants being the chemical industries Bioremediation is a technique that uses living organisms in order to degrade or transform contaminants into their less toxic forms It is based on the existence of microorganisms with the capacity to attack the compounds on the enzymatic level Bioremediation is an increasingly popular low cost alternative to conventional methods for treating wastes and contaminated media with the possibility to degrade these contaminants using natural microbial activity mediated by different consortia of microbes Over the last few years the scientific literature has revealed the progressive emergence of various bioremediation techniques Bioremediation and Sustainability presents an up to date and comprehensive collection of chapters prepared in bioremediation technology research and applications The strategies covered in this volume can be applied in situ or ex situ depending on the site in which they will be applied In situ is the treatment done in the site of the contamination and ex situ involves the removal of soil or water to subsequent treatment There is a wide variety of techniques that have been developed in the past and are covered in this volume such as natural attenuation bioaugmentation biostimulation biosorption composting phytoremediation rhizoremediation and bioleaching Technical Documentary Report United States. 6570th Aerospace Medical Research Laboratories, 1965 **High Value Fermentation Products, Volume 1** Saurabh Saran, Vikash Babu, Asha Chaubey, 2019-04-09 Green technologies are no longer the future of science but the present With more and more mature industries such as the process industries making large strides seemingly every single day and more consumers demanding products created from green technologies it is essential for any business in any industry to be familiar with the latest processes and technologies It is all part of a global effort to go greener and this is nowhere more apparent than in fermentation technology This book describes relevant aspects of industrial scale fermentation an expanding area of activity which already generates commercial values of over one third of a trillion US dollars annually and which will most likely radically change the way we produce chemicals in the long term future From biofuels and bulk amino acids to monoclonal antibodies and stem cells they all rely on mass suspension cultivation of cells in stirred bioreactors which is the most widely used and versatile way to produce Today a wide array of cells can be cultivated in this way and for most of them genetic engineering tools are also available Examples of products operating procedures

engineering and design aspects economic drivers and cost and regulatory issues are addressed In addition there will be a discussion of how we got to where we are today and of the real world in industrial fermentation This chapter is exclusively dedicated to large scale production used in industrial settings

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Native Aquatic Bacteria: Enumeration Activity, and Ecology J. W. Costerton,1979

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Proceedings of the Artificial Neural Networks in Engineering Conference November 5 8 2000 St Louis Missouri The 179 papers compiled in this book focus on building smart components to engineering systems currently available Topics discussed include Neural Networks Fuzzy Systems Complex Systems Pattern Recognition Smart Engineering Systems Evolutionary Programming Data Mining Adaptive Control and Biology and Medicine Special tenth anniversary edition includes subject and author indices

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Chemical Engineering Education ,1973

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CRC Handbook of Pest Management in Agriculture David Pimentel,1981

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