



Handbook of Industrial Cell Culture: Mammalian, Microbial, and Plant Cells

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A diverse team of researchers, technologists, and engineers describe, in simple and practical language, the major current and evolving technologies for improving the biocatalytic capabilities of mammalian, microbial, and plant cells. The authors present state-of-the-art techniques, proven methods, and strategies for industrial screening, cultivation, and scale-up of these cells, and describe their biotech and industrial uses. Special emphasis is given to the solving critical issues encountered during the discovery of new drugs, process development, and the manufacture of new and existing compounds. Other topics include recombinant protein expression, bioinformatics, high throughput screening, analytical tools in biotechnology, DNA shuffling, and genomics discovery.

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Editorial Review

Review

"This book provides an updated, informative and practical knowledge of mammalian, microbial and plant cell culture methods for industrial use. The handbook can prove useful for students and experienced biotechnology professionals who are interested in industrial cell culture. The book is a great starting point and will be a useful addition to university libraries." -E-STREAMS

From the Back Cover

The advent of molecular genetics, the progression of transgenic animal and plant methodologies from the laboratory to industrial-scale production, and the development of powerful analytical techniques have each helped standardize the culturing of cells to produce desirable commercial products. In Handbook of Industrial Cell Culture: Mammalian, Microbial, and Plant Cells, a diverse team of researchers, technologists, and engineers describe, in simple and practical language, the major current and evolving technologies for improving the biocatalytic capabilities of mammalian, microbial, and plant cells. The authors present state-of-the-art techniques, proven methods, and strategies for industrial screening, cultivation, and scale-up of these cells, and describe their biotechnological and industrial uses. Special emphasis is given to solving the critical issues encountered during the discovery of new drugs, process development, and the manufacture of new and existing compounds. Other topics include recombinant protein expression, bioinformatics, high throughput screening, analytical tools in biotechnology, DNA shuffling, and genomics discovery. The authors all have proven track records in the successful implementation of commercial-scale processes. Cutting-edge and highly practical, the Handbook of Industrial Cell Culture: Mammalian, Microbial, and Plant Cells not only surveys the best current practices in the art of industrial cell culture across cell types, but also delineates today's evolving technologies with examples of proven practical applications, as well as projections of their future potential.

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Gabrielle Ponds:

This Handbook of Industrial Cell Culture: Mammalian, Microbial, and Plant Cells book is absolutely not ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book is definitely information inside this e-book incredible fresh, you will get details which is getting deeper you read a lot of information you will get. This particular Handbook of Industrial Cell Culture: Mammalian, Microbial, and Plant Cells without we realize teach the one who reading through it become critical in thinking and analyzing. Don't possibly be worry Handbook of Industrial Cell Culture: Mammalian, Microbial, and Plant Cells can bring when you are and not make your tote space or bookshelves' grow to be full because you can have it in the lovely laptop even telephone. This Handbook of Industrial Cell Culture: Mammalian, Microbial, and Plant Cells having fine arrangement in word and also layout, so you will not experience uninterested in reading.

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