

# New and Future Developments in Microbial Biotechnology and Bioengineering: Microbial Cellulase System Properties and Applications



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*New and Future Developments in Microbial Biotechnology and Bioengineering: Microbial Cellulase System Properties and Applications* covers the biochemistry of cellulase system, its mechanisms of action, and its industrial applications. Research has shed new light on the mechanisms of microbial cellulase production and has led to the development of technologies for production and applications of cellulose degrading enzymes.

The biological aspects of processing of cellulosic biomass have become the crux of future research involving cellulases and cellulolytic microorganisms, as they are being commercially produced by several industries globally and are widely being used in food, animal feed, fermentation, agriculture, pulp and paper, and textile applications. The book discusses modern biotechnology tools, especially in the area of microbial genetics, novel enzymes, and new enzyme and the applications in various industries.

As a professional reference, this new book is useful to all researchers working with microbial cellulase system, both academic institutions and industry-based research bodies, as well as to teachers, graduate, and postgraduate students with information on continuous developments in microbial cellulase system. The book provides an indispensable reference source for chemists, biochemical engineers/bioengineers, biochemists, biotechnologists and researchers who want to know about the unique properties of this microbe and explore its future applications.

- Compiles the latest developments made and currently undergoing in the area of microbial cellulase system.
- Chapters are contributed from top researchers on this area around the globe
- Includes information related to almost all areas of microbial cellulase system
- Extensive cover of current industrial applications and discusses potential future applications

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