

ADVANCED FERMENTATION AND CELL TECHNOLOGY

2-Volume Set

By *Byong H. Lee*

Food Science & Technology | Food Biotechnology

A comprehensive and up-to-date reference covering both conventional and novel industrial fermentation technologies and their applications.

Advanced Fermentation and Cell Technology provides a balanced and comprehensive overview of the microbial, mammalian, and plant cell technologies used by the modern biochemical process industry to develop new and improved processes and products. This authoritative volume covers the essential features of advanced fermentation and cell technology, and highlights the interaction of food fermentation and cell culture biopharmaceutical actives.

- Covers both conventional and novel industrial fermentation technologies and their applications in a range of industries
- Discusses current progress in novel fermentation, cell culture, commercial recombinant bioproducts technologies
- Highlights the importance of sustainability, Good Manufacturing Practices (GMP), quality assurance, and regulatory practices
- Explores microbial cell technology and culture tools and techniques such as genome shuffling and recombinant DNA technology, RNA interference and CRISPR technology, molecular thermodynamics, protein engineering, proteomics and bioinformatics, and synthetic biology

Advanced Fermentation and Cell Technology is an ideal resource for students of food science, biotechnology, microbiology, agricultural sciences, biochemical engineering, and biochemistry, and is a valuable reference for food scientists, researchers, and technologists throughout the food industry, particularly the dairy, bakery, and fermented beverage sectors.



Print ISBN 9781119042761
Hardcover | 928 pages | October 2021
List price US\$345.00

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