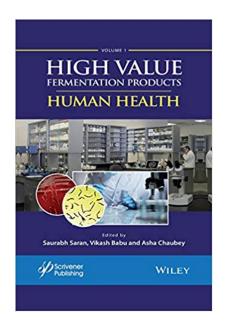
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グリーンテクノロジーの時代において大きな可能性を持つ製品に焦点をあてる本書は、高い需要が期待 される高価値醗酵製品を製造するために用いられている幅の広い醗酵技術についてカバーします。



高価値醗酵製品・全2巻 **High Value Fermentation Products**

Edited by SAURABH SARAN, VIKASH BABU & ASHA CHAUBEY

Volume 1 Human Health

2019年6月出版 480 ページ ISBN 9781119460015 ¥44.900

Volume 2 Human Welfare

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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 first volume 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.

This second volume in the groundbreaking new set, High Value Fermentation Products, focuses on industries that a concerned with human welfare, including the leather industry, textiles, pharmaceutical and medical, food processing, and others. Covering topics such as chitin and chitosan, microbial polyhydroxyalkanoates, propanediol, and many others, the editors and contributors have contributed to an extremely important facet of chemical and process engineering and how to move these industries into a much more sustainable and environmentally conscious direction. From converting waste into apparel to creating healthier

foods and more effective medicines, this is truly a monumental work that is a must-have for any chemical engineer, scientist, or chemist.

About the Author

Saurabh Saran, PhD, is a microbiologist and fermentation scientist with over ten years of experience in industrial microbiology, biotechnology and fermentation technology. He received his doctorate from Delhi University, and he has extensive experience in both the academic and industrial worlds, in multiple countries. He is currently Senior Scientist in the Fermentation Technology Division at the Indian Institute of Integrative Medicine, Jammu. He has three patents and more than 25 international publications in peer reviewed international journals on fermentation technology to his credit.

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