“Industrial Biorefineries and White Biotechnology” is a collection of the informative chapters that gives an overview, discussion and exemplifies the application of biotechnology from the industrial standpoint. As can be presumed by the title, this book covers two main topics, the industrial biorefineries, a concept of converting industrial-based biomass to more valuable products, and white biotechnology or the industrial biotechnology.

The first part, industrial biorefineries, focuses on the biorefinery of various products, by-products or waste from industrial processes. Covering not only the definition, principle, and comprehensive overview, but also the SWOT analysis, the first chapter provides such an excellent introduction to biorefinery concept. Background, state-of-art knowledge and technologies of several key industrial-based biomass biorefinery, for example, lignocellulose, oil and algae are discussed in individual chapters. In the second part, white biotechnology, the reader will go through the detailed information regarding the development, production and application of biocatalysts, bioprocesses and bioproducts. The covered topic ranges from food, cosmetics, biosurfactant to bioplastic application. Several chapters cover the development of biocatalyst e.g. metabolic engineering for the specific industries.

Altogether, “Industrial Biorefineries and White Biotechnology” helps reader not only understand the general aspect but also provides the profound knowledge of biotechnological application in different industries. This book is recommended for students, academic, researcher and practitioners.

Reviewer

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