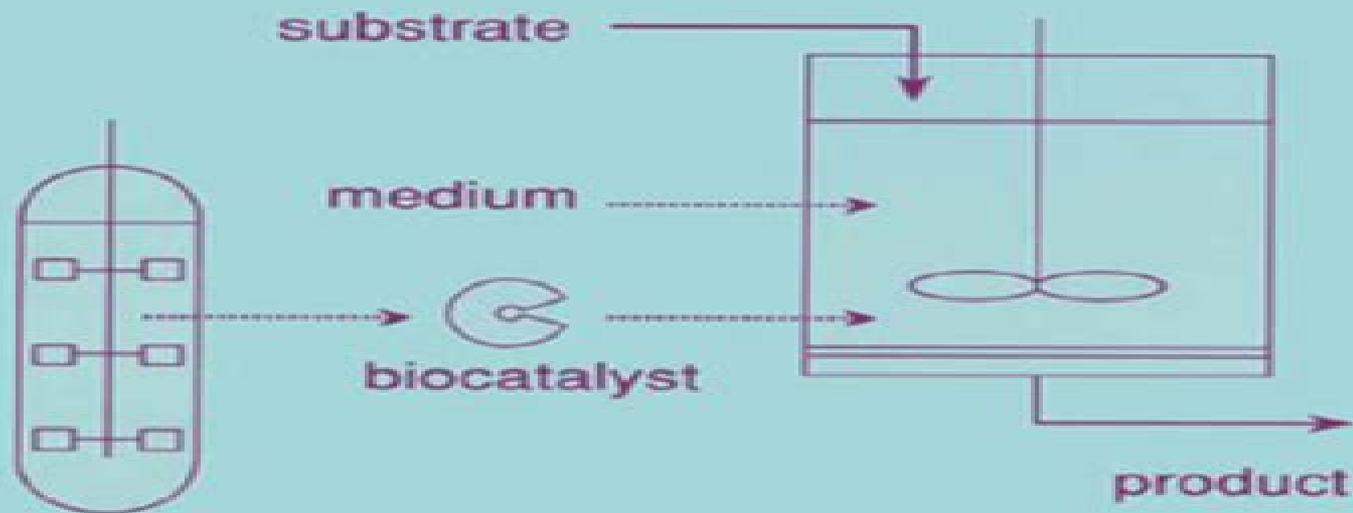


# APPLIED BIOCATALYSIS

## Second Edition

Edited by  
*Adrie J.J. Straathof and Patrick Adlercreutz*



# Applied Biocatalysis

**Adrie J.J. Straathof, Patrick Adlercreutz**

## **Applied Biocatalysis:**

**Applied Biocatalysis** John Whittall, Peter W. Sutton, 2020-08-21 Provides clear and comprehensive coverage of recently developed applied biocatalysis for synthetic organic chemists with an emphasis to promote green chemistry in pharmaceutical and process chemistry This book aims to make biocatalysis more accessible to both academic and industrial synthetic organic chemists It focuses on current topics within the applied industrial biocatalysis field and includes short but detailed experimental methods on timely novel biocatalytic transformations using new enzymes or new methodologies using known enzymes The book also features reactions that are expanding and making the enzyme toolbox available to chemists providing readers with comprehensive methodology and detailed key sourcing information of a wide range of enzymes Chapters in Applied Biocatalysis The Chemist s Enzyme Toolkit are organized by reaction type and feature a short introductory section describing the current state of the art for each example Much of the book focuses on processes for which the enzymes are readily available so that organic chemists can synthesize appropriate quantities of chemicals with available materials in a standard chemical laboratory Advanced methods are included to present examples of new enzymes that might encourage collaboration with suppliers or academic groups and that will educate chemists of rapidly expanding future possibilities Focuses on current topics within the applied industrial biocatalysis field Offers experimental methods on novel biocatalytic transformations using new enzymes or new methodology using known enzymes Covers the hot topics of enzyme and chemoenzymatic cascades and biocatalysis in flow Edited by noted experts from both academia and industry with years of experience in the field of biocatalysis particularly the industrial applications of enzymes Written for synthetic organic chemists working in all industries but especially the pharmaceutical industry and for those in academia with an eye for biocatalysis Applied Biocatalysis The Chemist s Enzyme Toolkit will also benefit academic groups in chemistry and related sciences that are using enzymes for synthetic purposes as well as those working in the area of enzymology and molecular biology

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routes in which they can be applied are made accessible to the reader In addition the complementary innovative process technology under unconventional conditions is highlighted by latest examples from biotech industry **Advances in Applied Microbiology**, 2011-07-29 Published since 1959 *Advances in Applied Microbiology* continues to be one of the most widely read and authoritative review sources in Microbiology The series contains comprehensive reviews of the most current research in applied microbiology Recent areas covered include bacterial diversity in the human gut protozoan grazing of freshwater biofilms metals in yeast fermentation processes and the interpretation of host pathogen dialogue through microarrays Eclectic volumes are supplemented by thematic volumes on various topics including Archaea and Sick Building Syndrome Impact factor for 2003 1 893 *Applied Biocatalysis in Europe: A Sustainable Tool for Improving Life Quality* Andres R Alcantara, Francisco Plou, 2021 Applied biocatalysis and biotransformation that is the use of enzymes and whole cell systems in manufacturing processes for synthetic purposes has been experiencing a clear boom in recent years which has led to the start of the so called fourth wave In fact the latest advances in bioinformatics system biology process intensification and in particular enzyme directed evolution encouraged by the 2018 Nobel Prize awarded to F Arnold are widening the range of the efficacy of biocatalysts and accelerating the rate at which new enzymes are becoming available even for activities not previously known European scientists have been very actively involved in different aspects of this field Nine contributions dealing with different aspects of applied biocatalysis developed by European researchers are gathered in this Special Issue

Applied Bioengineering Toshimi Yoshida, 2017-01-12 A comprehensive overview of the topic highlighting recent developments ongoing research trends and future directions Experts from Europe Asia and the US cover five core areas of imminent importance to the food feed pharmaceutical and water treatment industries in terms of sustainable and innovative processing and production In the field of enzyme engineering they summarize historic developments and provide an overview of molecular enzyme engineering while also discussing key principles of microbial process engineering including chapters on process development and control Further sections deal with animal and plant cell culture engineering The final section of the book deals with environmental topics and highlights the application of bioengineering principles in waste treatment and the recovery of valuable resources With its cutting edge visions extensive discussions and unique perspectives this is a ready reference for biotechnologists bioengineers biotechnological institutes and environmental chemists *Applied Biocatalysis in Specialty Chemicals and Pharmaceuticals* Badal C. Saha, 2001 Written for a wide variety of biotechnologists this book provides a major review of the state of the art in bioethanol production technologies enzymatic biomass conversion and biodiesel It also provides a detailed explanation of a breakthrough in photosynthetic water splitting which could result in a doubling of the efficiency of solar energy conversion by green plants The book covers production of lactic acid succinic acid 1 3 propanediol 2 3 butanediol and polyhydroxybutyrate and xylitol It also includes a chapter on synthesis gas fermentation

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enzymology in general and protein design for organic solvents in particular and enzymatic synthesis of carbon carbon bonds novel oligosaccharides and modified steroids It is a valuable source to experienced as well as potential users of enzymes

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