

Paperback Re-issue

This 1994 book provides a fascinating account of the fast-moving field of lipase research. It covers both the lipases proper (triglyceride lipases) and the phospholipases. It gives a comprehensive picture of the state of knowledge of these at the time, with a strong bias towards the fields attracting the greatest attention: their detailed molecular structure, their mechanism of action, their position in the evolution of enzymes, and their application both in the laboratory and in industry.

The book begins with a survey of known amino-acid sequences of lipases and an analysis of their kinships with the sequences of other, related protein families. A survey of lipases from plants is followed by several chapters, each of which looks at a topical aspect of the structures and mechanisms of action of representative lipases from animals, bacteria and fungi. On the applied side, methods for isolating and purifying lipases are reviewed, and further chapters survey the value of lipases for chemical synthesis in particular and for industry in general. Finally, the medical aspects of some lipases are discussed, and the book ends with a glimpse into the future of lipases as potentially valuable 'engineered proteins'.

This book will continue to be of interest those working in universities, in research institutes and in companies specialising in biotechnology, as well as being a useful reference book for university departments of biochemistry and chemistry.

Cover design: Jackie Taylor

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ISBN 978-0-521-20799-7



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