

modern biochemistry course or textbook, the discussion of the principles of ion transport outlined in Chapter Two is less common. The succinct explanations and the biophysical application of the Nerst, Ussing–Teorell and Goldman equations may prove very useful to many biochemists. Chapter Three contains information on the concept of carriers involved in transport, together with the use of ionophores in studying ion movements. Chapter Four attempts to link ion transport with metabolic events across a broad spectrum of cellular events, again including both plants and animal cells. It contains a cross-disciplinary discussion of Mitchell's chemiosmotic theory—recently accorded the supreme accolade of respectability! The last study represents an outline of investigations in case studies—ion transport in giant algal cells and co-transport of solutes. Both make interesting reading of the way in which problems in this area are tackled. The layout of the book is clear and well-presented, and each chapter is reasonably well-documented with (1975) references.

J. B. CLARK

Guide for the Perplexed Organic Experimentalist

H. J. E. LOEWENTHAL

Heyden, London, 1978, pp. 174, £4.80

This little book will be of great value to anyone undertaking any preparative organic chemistry at the postgraduate level. Written with a sense of humour, and well-illustrated, the book exhibits clearly the author's grasp of the *practical* problems that may beset the aspiring synthetic chemist. For those familiar with Vogel's *Practical Organic Chemistry* it is both an amplification and a modernization of the excellent chapters on experimental technique in that work. Other topics covered are literature searching, safety (succinctly), small-scale reactions and reagent ordering and storage. The book is aimed at the fresh graduate embarking on an organic-chemistry Ph.D., but will surely appeal to a much wider readership.

A. R. TAMMAR

Cholesterol Metabolism and Lipolytic Enzymes

J. POLONOVSKI

Masson Publishing, U.S.A., 1977, pp. 211, £21.00

This book is yet another collection of conference papers—in this case the 19th International Conference on the Biochemistry of Lipids. The conference dealt with regulation of lipid synthesis, metabolism of lipoproteins and bile-acid metabolism. I found the book rather like a meal with a high-fibre content: pleasant in parts, but other parts were highly indigestible!

With this multiplicity of topics, the book required strong editorial control if it was not to appear as merely a collection of heterogeneous papers. Unfortunately this editorial control is conspicuous by its absence and there are enormous variations in style. Contrast for example Boyd's impeccable scientific prose in his article on 'Cholesterol Exchanges Between Certain Mammalian Sub-Cellular Organelles' with Hoffman's assault on the English language. I found his predilection for converting adjectives into nouns most offensive.

The articles on regulation of lipid synthesis are generally well-written. However, Chevailler's attempt to describe the dynamics of cholesterol metabolism in the rat would have been improved by translation from the 'franglais'.

In the field of lipoprotein metabolism, the authors have chosen generally to present their own (recent) data. Unfortunately the time lag between the conference and

@article{Borggreve2003AlterationsIH, title={Alterations in high-density lipoprotein metabolism and reverse cholesterol transport in insulin resistance and type 2 diabetes mellitus: role of lipolytic enzymes, lecithin:cholesterol acyltransferase and lipid transfer proteins.}, author={Susanna E Borggreve and Ronald P. de Vries and Robin P F Dullaart}, journal={European journal of clinical investigation}, year={2003}.