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REGULATION IN METABOLISM

E.A. Newsholme, *Department of Biochemistry, University of Oxford*,
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This is the only book which discusses in detail the biochemistry of metabolic regulation of all the major energy producing and utilizing pathways in the cell. A detailed account of the conceptually difficult problem of the basic principles underlying metabolic regulation is provided, and these principles are used in the discussion of metabolic regulation of the pathway. Allosteric models are discussed from a historical point of view and the equations that describe these various models are derived in such a way as to be comprehensible to non-mathematicians. The book has been written with the experiences gained from ten years of lectures and tutorials given to undergraduates reading biochemistry and physiology at Oxford.

Particularly useful features of the book are the tables which draw a considerable body of factual information together. These are supported by an extensive bibliography. A hormone 'index' which presents an outline of the metabolic effects of insulin growth hormone, adrenaline and glucagon, has been included. The 'index' is designed to aid students who need to collate and organize the various metabolic effects of an individual hormone for a particular study-project.

349 pages

1973

PRACTICAL ELECTRON MICROSCOPY FOR BIOLOGISTS, 2nd Edition

Geoffrey A. Meek, *Senior Lecturer in Electron Microscopy, Department of Human Biology and Anatomy, The University, Sheffield*

This book is intended to fill the gap between instrument design on the one hand and specimen preparation on the other. It is intended to explain and expand the instructions given in the operating manuals provided by the electron microscope manufacturers, and to survey the requirements of the various biological workers who might wish to acquire an electron microscope, and to suggest which of the many instruments at present available might best fulfil a given requirement for the least expenditure of funds.

Since the first edition of this book was written five years ago, much progress has been made in the technology of electron microprobe instruments, to which family the conventional transmission electron microscope belongs. In particular, the use of high-brightness electron guns and the scanning mode of image formation in conjunction with electron spectrometry and computer-based techniques of image analysis have greatly improved the detection efficiency of the lower atomic number elements such as carbon, which are of special interest to biologists. The resulting increase in image contrast has made possible high resolution micrographs of native, unstained specimens of great biological importance, such as DNA molecules.

The potential usefulness of electron beam technology in biology is immense. Advances in instrument technology are now far outstripping their biological applications. Accordingly, this second edition has been brought up to date by the addition of new material introducing these novel physical microanalytical methods to the biologists.

528 pages

1976

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