regeneration of tail is 1.9 times greater in animals that have been provided with an oral administration of ZnSo₄.

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Department of Zoology.

Panjab University,

Chandigarh, India, April 22, 1978.

S. K. TANEJA.

HARPREET KAUR.

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REVIEWS

Horizons in Biochemistry and Biophysics, Volume 4. Editors: E. Quagliariello, F. Palmieri and Thomas P. Singer. (Addison-Wesley Publishing Company, Inc., Advanced Book Program, Reading, Massachusetts 01867, U.S.A.), December 1977. Pp. xvi + 302. Price: U.S. \$ 19.50 in hard binding.

The fourth volume in this series contains 9 articles of quality that satisfy the aims of the editors "to choose articulate authors who are more concerned with the dissemination of knowledge than with emphasis on their own contribution or priorities". The subject-matter covers a wide range of biochemistry and biophysics: calcium and mineralization, fluidity of biomembranes and spin labels, hormone receptors and hormone action in lipolysis, biological effects of purines and transport-dependent adenylate cylase, biochemistry of fertilization and structure function of transfer RNA. The editorial policy has claimed to make these articles "a new means of communication.....unencumbered by specialized jargon, extensive documentation or bibliography". Thus the reader will easily be able to assimilate the information in the field and gain an appreciation of the trends of current research. In fact the authors seem to assume that the reader had no background and give explanation of all terms used (e.g., synapse on p. 65). Calling the book 'Horizons', is probably unfair to the expected readership. On the contrary, the reviewer gained the impression, in some articles at least, that these are written as essays with basic conceptual treatment fit as answers in an examination paper.

Lehninger's article on mitochondrial function in mineralization is stimulating and shows the whole canvas of calcium biochemistry. Friedberg's article on hormone receptors gives a glimpse of this fascinating field. The article of Meisner and Carter Jr. on lipolysis seems to be a summary of old work with hardly any references beyond 1975. Henderson's coverage on purine compounds and their participation in metabolic regulation and cell growth is a fine presentation. One

would have expected coverage on the effects of adenosine in vasoconstriction and in glycogen and cholesterol synthesis. The article of Kim and Sussman on transfer RNA is an exceedingly informative piece on this subject.

The book is printed by photo-offset method, contains 305 pages and is easy to read. The reviewer wonders whether it is essential to print ISBN 0-201-02714-3 number on each page tending to irritate the reader. Lhere are many number of good reviewing books; yet the "Horizons', will have a place of its own and the reviewer has enjoyed reading this volume.

T. RAMASARMA.

Principles of Reaction Mechanism in Organic Chemistry, Second Edition, (Sultan Chand and Sons, 23, Daryagani, New Delhi, 110 002), February 1978. Pp. xiii + 447. Price: Rs. 14.00.

The present second edition is a much improved book incorporating most of the corrections needed in the first edition. In addition, the authors have added a chapter on Woodward-Hofmann rules of orbital symmetry and their role in determining the stereochemical course of the electrocyclic reactions.

Chapter 14 has been rewritten. However, there is still some confusion regarding the statement made in the preface and the discussion on page 348.

Some aspects of the chemistry of carbonium ions have been included in Chapter 13. Several new aspects of iosmerism like E Z system of naming geometrical isomers, R & S nomenclature, Huckel's rule for aromaticity have been included.

The author has incorporated a large number of problems at the end of each chapter. This is quite useful in understanding the chapter more clearly. Further some selected references for further reading are also given.

The book is recommended for use by M.Se. students.

T. R. KASTURI.