

BOOKS RECEIVED

COMPARATIVE MAMMALIAN CYTOGENETICS

Edited by Kurt Benirschke (Hanover, New Hampshire, USA). Springer-Verlag, Berlin-Heidelberg-New York 1969. Bound volume with cover; 15.5×23.5 cm; XXII+474 pages; 218 black-and-white illustrations. Subject Index. Price: US \$ 24.80.

Proceedings of an International Conference held at Dartmouth Medical School, Hanover, New Hampshire, on 29 July-2 August 1968. The following subjects are dealt with: Species, speciation, and chromosomes; Mechanisms of chromosomal changes in mammalian speciation; The mammalian genome in evolution and conservation of the original X-linkage group; Geographic variation of chromosome forms in *Spalax*, a subterranean Mammal of restricted mobility; Induced chromosomal aberrations with special reference to Man; Lethal chromosome errors; Meiosis in Mammals; Hybrid sterility; Experimental hybridization; Genetic aspects of infertility; Gene action in human diploid cell strains; Chromosome mosaics as markers in embryology; Multipolar mitosis and somatic segregation in cell cultures of *Microtus Agrestis*; Cytogenetics of Marsupials; Insectivore cytogenetics; Cytologic mechanisms of karyotype evolution in insectivores; Patterns of autosomal heterochromatin; Chromosomal evolution in Rodents; Cytogenetic and phylogenetic studies in Carnivora; Cytogenetic studies of some Armadillos; Artiodactyl Mammals: their chromosome cytology in relation to patterns of evolution; Primates; Considerations of sex chromosome abnormalities in Man; Anomalies of sex chromosomes in tortoiseshell male cats; Aneuploidy, polyploidy and structural rearrangement of chromosomes in Mammals other than Man; Boucher Specimens in comparative cytogenetic studies.

The volume is completed by a number of technical addenda.

MAMMALIAN REPRODUCTION

Edited by H. Gibian and E.J. Plotz. Springer-Verlag, Berlin-Heidelberg-New York 1970. 21. Colloquium der Gesellschaft für Biologische Chemie, 9.-11. April 1970 in Mosbach/Baden. Bound volume; 13.5×20.5 cm; VI+470 pages; 255 black-and-white illustrations. Price: US \$ 18.70.

Proceedings of a colloquium of the Society of Biological Chemistry, containing a number of papers on the general physiology of reproduction in mammals, with some emphasis on the chemistry and physiological significance of hormones and pituitary regulation, as well as on the physiology of sperms and eggs and of reproductive organs. The book is completed by a general introduction and a summary by the editor, although a subject index is unfortunately missing.

CHEMICAL MUTAGENESIS IN MAMMALS AND MAN

Edited by F. Vogel and G. Röhrborn (Heidelberg, Germany). Springer-Verlag, Berlin-Heidelberg-New York 1970. Bound volume with cover; 16.5×24 cm; XIV+520 pages, numerous tables and 95 black-and-white illustrations. Subject Index. Price: US \$ 34.10.

This beautifully edited and printed book, dedicated to the eightieth birthday of a leading geneticist, Hans Nachtsheim, consists of the proceedings of a symposium on mutation research held in Mainz at the end of 1969. A first section, under the heading. Aspects of the Problem, examines the biochemical mechanisms of mutation, spontaneous mutation in man, and the mutagenic substances in the human environment. A second section is then devoted to the various

research methods, and a third one to the findings and applications of mutation research.

An appendix on specific statistical methods concludes this interesting book.

HISTOCOMPATIBILITY TESTING 1970

Report of an International Workshop held at UCLA and Palm Springs, California, USA (20-26 January 1970) and the Fourth International Histocompatibility Conference at Los Angeles, California, USA (27-29 January 1970).

Edited by Paul I. Terasaki (Los Angeles, Calif., USA). Munksgaard 1970. Bound volume; 17.5 × 24 cm; 658 pages; numerous tables and illustrations. Author Index. Price: Dan. Kr. 148.50 (approx., US \$ 25).

The history of human transplantation antigens from its beginning to the Torino Workshop in 1967 witnesses above all the gradual discovery of an entirely new field, during which new methodologies had to be ingeniously devised in order to detect the new antigens, their serology and their genetics.

The meetings held in California in January 1970, reflect the collaborative effort of all participants to bring order into the mass of available data, standardizing nomenclature and methodology and clarifying the genetic mechanisms. In fact, geneticists will appreciate (in comparison with report of previous workshop) the degree of fine genetic analysis evidenced in many of the papers presented.

The complexities of genetic mechanisms involved, and the still intriguing pattern of cross reactions, immunogenicity, MLC stimulation, possible haploid expression etc., offer a broad area for speculation and experimentation.

While compulsory reading for anyone who has interest in the subject, the volume would require some introductory text for nonspecialized readers.

CURRENT TOPICS IN MICROBIOLOGY AND IMMUNOLOGY — Volume 49

Edited by W. Arber (Genève), W. Braun (New Brunswick), F. Cramer (Göttingen), R. Haas (Freiburg), W. Henle (Philadelphia), P.H. Hofschneider (München), N.K. Jerne (Basel), P. Koldovski (Prague), H. Koprowski (Philadelphia), O. Maaloe, (Copenhagen), R. Rott (Giessen), H.-G. Schweiger (Wilhelmshaven), M. Sela (Rehovoth), L. Syruček (Prague), P.K. Vogt (Seattle), and E. Wecker (Würzburg). Springer-Verlag, Berlin-Heidelberg-New York 1969. Bound volume; 17 × 25.5 cm; 250 pages; 56 black-and-white illustrations. Author Index, Subject Index. Price not indicated.

B. ROIZMAN: The Herpesviruses — A Biochemical Definition of the Group.

T. MAKINODAN, T. SADO, D.L. GROVES, and G. PRICE: Growth Patterns of Antibody-Forming Cell Populations.

J. IVÁNYI and J. ČERNÝ: The Significance of the Dose of Antigen in Immunity and Tolerance.

ANTOINETTE RYTER: Structure and Functions of Mesosomes of Gram Positive Bacteria.

T.A. JUKES: Recent Problems in the Genetic Code.

ORIGIN AND CONTINUITY OF CELL ORGANELLES

Edited by J. Reinert (Berlin, Germany) and H. Ursprung (Zurich, Switzerland). Springer-Verlag, Berlin-Heidelberg-New York 1971. With contributions by: R. Baxter, C.E. Bracker, R.M. Brown Jr., R. Buvat, J.H. Campbell, R.D. Campbell, F.A.L. Clowes, M. Dauwalder, C. Fulton, J.E. Kephart, A.P. Mahowald, H.H. Mollenhauer, D.J. Morré, E. Schnepf, W. Stubbe, L.G. Tilney, W.G. Whaley. Volume 2 in the series, "Results and Problems in Cell Differentiation - A Series of Topical Volumes in Developmental Biology." Bound volume with cover; 16.5 × 23.5 cm; XIV + 342 pages; 135 black-and-white illustrations. Price: US \$ 20.80.

After "The Stability of the Differentiated State", here is the second volume in the special series on developmental biology, "Results and Problems in Cell Differentia-

tion". The present volume deals with such fundamental problems as the structure and function of membranes, origin and continuity of mitochondria, plastids, Golgi apparatus, vacuoles, polar granules, microtubules, desmosomes, and other cell organelles. Unfortunately, these chapters are not supplemented by a subject index.

LECTURES ON DEVELOPMENTAL PHYSIOLOGY
— Second edition

By Alfred Kühn (Tübingen, Germany); translated by Roger Milkman (Iowa City). Springer-Verlag, Berlin-Heidelberg-New York 1971. Bound volume with cover; 17.5 × 24 cm; XVI+536 pages; 620 black-and-white (or partly colored) illustrations. Author Index, Subject Index, and Systematic Index. Price: US \$ 21.20.

Translated from the second revised and expanded German edition, this book contains a series of thirty-six lectures given in various forms by Professor Kühn during his courses of developmental physiology in Göttingen and Tübingen.

Although the lectures necessarily represent a selection, they give a rather complete picture of the main topics of developmental biology, in a continuous progression from cell to higher organisms and with examples taken from the three kingdoms: protists, plants, and animals.

The book is well illustrated and supplemented by an extensive list of references, as well as by Author, Subject and Systematic Indexes.

MONITORING, BIRTH DEFECTS AND ENVIRONMENT — The Problem of Surveillance

Edited by Ernest B. Hook, Dwight T. Janerich, and Ian H. Porter — Birth Defects Institute, New York State Department of Health, Albany, New York. Academic Press, New York and London 1971. Bound volume with cover; 15 × 23 cm; XIV+308 pages including tables and illustrations. Price not indicated.

Based on a Birth Defects Institute Symposium, held in Albany, New York, on 19-20 October 1970, this book deals with the methods for monitoring the population frequency of malformations and mutations, aiming to the detection of newly introduced mutagens and teratogens.

Besides malformations and mutations monitoring, prenatal monitoring and amniocentesis are also taken into account with some detail.

ANGEWANDTE UND TOPOGRAPHISCHE ANATOMIE — Ein Lehrbuch für Studierende und Ärzte — Vierte, überarbeitete und erweiterte Auflage

Applied and Topographic Anatomy — A Textbook for Students and Medical Doctors — Fourth edition, revised

By Gian Töndury (Zurich, Switzerland). Georg Thieme Verlag, Stuttgart 1970. Bound volume with cover; 17.5 × 26 cm; VIII+636 pages; 561 black-and-white and colored illustrations. Subject Index. Price: DM 98 (approx., US \$ 29.00).

Here is the fourth edition, enlarged and revised, of a classic textbook of anatomy, which first appeared in 1951 and ever since encountered a large success among students, practicing doctors, and anatomists, both in Germany and abroad.

The fourth edition has been enlarged in practically every section.

The text has been carefully revised and a large number of illustrations has been added.

This book is highly recommended for the high quality of the presentation and, more especially, for the number and quality of the original illustrations, among which a rather large number of colored reproductions. It is further supplemented by a very useful bibliography, subdivided by sections, and a careful and exhaustive index.

PSYCHOLOGIE ET ALLERGIE

Psychology and Allergy

Edited by J.-P. Grilliat (Paris, France). L'Expansion Scientifique Française, Paris 1970. With contributions by J.-M. Alby, R. Bertrand, M. de Boucaud, J. Cain, J. Denis, R. Durand de Bousingen, P. Freour, J.-P. Grilliat, D. Herman, M.-F. Lecomte, D. Luminet, J. Philippe, C. Righini, F. Thevenin, R. Wolfromm. Paperback: 17×22 cm: 172 pages with tables and 10 black-and-white illustrations. Price: F 45 (approx., US \$ 10.00).

The 1969 meeting of the French Allergological Society was devoted to the two main subjects: (1) immunodepressors and their clinical applications, and (2) psychology and allergy. This booklet contains the proceedings of the meeting as related to the second subject.

A report by Professor Kourilsky on the relations between psychologic manifestations and allergic phenomena introduces a general round table on the psychological approach of the various forms of allergy. A large number of contributed papers complete this interesting booklet.

ÉLÉMENTS DE BIOPSYCHOLOGIE DU COMPORTEMENT — Applications à la Pratique Médicale

Elements of Behavior Psychobiology — Applications to Medical Practice

By L. Moor. L'Expansion Scientifique Française, Paris 1970. Paperback; 21×25 cm; 92 pages; 20 black-and-white illustrations. Glossary of technical definitions. Price not indicated.

A booklet devoted to the medical application of certain elementary psychological notions, such as those concerning the processes of conditioning and learning, memory, sensations and perceptions, intelligence, expression and symbolism, motivations of behavior, emotions, and conscience and the unconscious.

NATIONAL FAMILY PLANNING BOARD MALAYSIA — Annual Report for the Year 1970

Paperback, 15×23 cm, of 62 pages including 32 tables and black-and-white illustrations. National Family Planning Board, Peti Surat 416, Kuala Lumpur, Malaysia.