

INTRODUCTION TO MOLECULAR EMBRYOLOGY

By Jean Brachet (Brussels, Belgium). The English Universities Press, and Vol. 19 in the series, Heidelberg Science Library, Springer-Verlag, Berlin-Heidelberg-New York 1974. Soft cover, 15.5 × 22.5 cm, XI + 176 pp, 67 illustrations. Price: DM 14.40/US \$ 5.90.

An authoritative approach to the problems of embryology in molecular terms, this book first sets the premises by explaining how the classic descriptive approach in embryology may now be reviewed at the molecular level, and what are the mechanisms through which genes direct the synthesis of specific proteins. The logical order of embryonic development is then followed: gametogenesis, fertilization, cell division, and cell differentiation. The chemical embryological approach is used to examine the development of two series of respectively invertebrate and vertebrate eggs. The biochemical interactions between nucleus and cytoplasm during morphogenesis are also considered. The presentation is plain, so that it may be easily accessible to nonspecialists.

GENE EXPRESSION

Volume 2: Eukaryotic Chromosomes

By B. Lewin (Cambridge, Massachusetts, USA). John Wiley & Sons, New York-Sydney-Toronto 1974. Hard cover with jacket, 16 × 23.5 cm, XIV + 467 pp, illustrated. Price: £ 8.00 (approximately US \$ 18.40).

An account of the molecular biology of the gene in the cells of higher organisms is provided by this second volume, the mechanism and control of gene expression in bacteria having been dealt with in Volume 1. The structure of the eukaryotic genetic apparatus is examined first (structure of the chromosome, chromosome functions during the cell cycle, protein components of the chromosome, sequences of eukaryotic DNA). The expression of eukaryotic genetic information is then examined (transcription and processing of RNA, control of transcription, and interaction between nucleus and cytoplasm).

Acta Genet. Med. Gemellol. (1975), 24: 182

THE MAMMALIAN FETUS IN VITRO

Edited by C.R. Austin (Cambridge, GB). Chapman and Hall, London 1973. Hard cover with jacket, 16.5 × 24 cm, XII + 388 pp, illustrated. Price: £ 8.00 (approximately US \$ 18.40).

A series of contributions on the following subjects: implications of viviparity; studies on mammalian fetuses in vitro during the period of organogenesis; adaptations of marsupial pouch young for extrauterine existence; experimental techniques in fetal and placental physiology; isolated extracorporeal placentation of the fetal lamb; extracorporeal maintenance of small human fetuses; extracorporeal circulation for the study of the pre-term fetus; physiological principles involved in the care of the pre-term human infant; progress and future prospects in the study of the fetus in vitro.

AN ATLAS OF MAMMALIAN CHROMOSOMES

Volume 8

By T.C. Hsu (Houston, Texas, USA) and Kurt Benirschke (La Jolla, California, USA). Springer-Verlag, Berlin-Heidelberg-New York 1974. Loose-leaf boxed, 21.5 × 28 cm, XXXIX + 211 pp, 50 plates. Price: DM 48.60/US \$ 21.20.

HORIZONS IN PERINATAL RESEARCH

Implications for Clinical Care

Edited by N. Kretchmer (Stanford, California, USA) and E.G. Hasselmeier (Bethesda, Maryland, USA). John Wiley & Sons, New York-London-Sydney-Toronto 1974. Proceedings of a symposium. A volume in the series, Clinical Pediatrics, Maternal and Child Health, edited by N. Kretchmer. Hard cover with jacket, 15.5 × 23.5 cm, XVIII + 193 pp, illustrated. Price: US \$ 8.25.

PATHOLOGIE DER PERINATALPERIODE

PATHOLOGY OF THE PERINATAL PERIOD

By K. Kloos and M. Vogel (Berlin). Georg Thieme Verlag, Stuttgart 1974. Hard cover with jacket, 18 × 24.5 cm, VIII + 382 pp, 163 illustrations and 54 tables. Price: DM 130 (approximately US \$ 52.00).