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Figures at the end of the issue.

BOOK REVIEW

PHILLIPS, R. L., BURNHAM, C. R. (ed.): *Cytogenetics. Benchmark Papers in Genetics*. V. 6.—Dowden, Hutchinson and Ross, Inc. Stroudsburg, Pennsylvania, USA, pp. 489. US \$ 44.00.

This volume deals with the history and development of cytogenetics which is "not a side branch of genetics, but rather a stepping stone to more complete understanding of the subject". The editors have selected the 49 most important papers which advanced this scientific discipline, starting from 1901 and ending in 1970. The papers, both on plants and animals, are divided into seven sections: 1) Chromosome individuality, structure and number (*e.g.* papers by C. B. Bridge, H. Ris., B. McClintock). 2) Chromosome replication (*J. H. Taylor et al.*). 3) Chromosome pairing (*C. D. Darlington, R. Riley*). 4) Crossing-over (*C. Stern, D. Schwartz*). 5) Chromosome function (*J. Lejeune, J. Shultz*). 6) Chromosome behavior (*H. Kihara, E. R. Sears*) and 7) Genetic and cytological mapping (*T. H. Morgan*). Each section of the reprinted papers are preceded by an introduction "Historical Perspectives" and by "Editors Comments" emphasizing the most important aspects of each paper. Most papers (34) are printed in full and the remaining 15 mostly without Material or reproductions. Two of the papers were translated from German and one from French. The individual sections are accompanied by references of other contributions, dealing with the same topic.

The editors of this volume have brought together papers that demonstrate the development and integration of knowledge concerning the behavior of chromosomes in mitosis and meiosis and the segregation of heritable units. This book can be recommended to all interested in the history of genetics.

T. GICHNER (*Praha*)