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 **Principles of genetics.**Author(s) : [GARDNER, E. J.](#)

Author Affiliation : Utah State Univ., USA.

Book : [Principles of genetics](#). 1972 No.4 pp.xi + 527 pp.

Abstract : The latest edition of this genetics text book has undergone considerable changes since the first edition appeared in 1960 [cf. XXXI, 2817]. The text has been completely revised and rewritten and, while the aspects of basic genetics have been preserved, much of the historical material has been eliminated to make room for the latest experimental results. The advances made in molecular genetics during the past decade are reflected throughout the text, in contrast to the first edition which had a chapter on the molecular basis of heredity. The chapter on the control of gene activity introduces the operon concept and describes a model for gene regulation in higher organisms.

separate chapter is devoted to the synthesis and evolution of proteins. The extrachromosomal inheritance has been enlarged to form a whole chapter, details of mitochondria, plastids and other organelles. There are also new chapters on developmental genetics, behavioural genetics and recent accomplishments in genetics.

The addition of a useful glossary enhances the very readable text, which serves as a valuable introduction to genetics for the undergraduate student.

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