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Discussions in cytogenetics.

Author(s) : [BURNHAM, C. R.](#)

Book : [Discussions in cytogenetics](#). 1962 pp.iii + 375 pp.

Abstract : Dr. Burnham's book is intended to serve as an advanced course on cytology and genetics. The introductory chapter deals with linkage and a summary of the present state of knowledge on the subjects of linkage and chromosome morphology and the relation of morphological features to genetics. There follows a series of chapters dealing in detail with structural changes : deficiencies and duplications, inversions and interchanges; in each case including given of ways in which the particular phenomenon may be put to use in the laboratory or in breeding or other practical work, and of possible evolutionary significance. The first section is dedicated exclusively to *Oenothera*. The second section of the volume is

with changes in chromosome number, chapters being devoted respectively to autopolyploidy, including haploidy and monoploidy, and to allopolyploidy, applications of polyploidy being accorded a chapter to themselves; the related defects of polyploids are discussed, first for autopolyploids and then for all various instances of the use of polyploids in interspecific gene transference. Chapter 10 deals with sex determination and includes a section on cytoplasmic sterility and its use in breeding; the student is warned that "a much better understanding of the problem will be gained if sex expression is regarded as a complex phenomenon." The final chapter is concerned with apomixis, which for convenience is taken to include vegetative reproduction; the use of apomictic forms to perpetuate heterosis is discussed by reference to *Parthenium*, *Poa*, and other genera.

The volume is completed by a bibliography covering 50 pages and a set of 100 study questions. There is also a list of selected references for reading in connection with each of the individual chapters and a subject index.

Record Number : 19641601274

Publisher : Burgess Publishing Company, Minneapolis, Minnesota, USA

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Language of summary : English

Indexing terms for this abstract:

Organism descriptor(s) : Oenothera, Parthenium, Poa, Poaceae

Descriptor(s) : apomixis, bibliographies, cell division, chromosome morphology, chromosome number, chromosomes, crossing over, cytogenetics, cytology, deficiency, genetic diversity, genetics, grasses, haploidy, heterosis, linkage, male sterility, morphology, plant morphology, polyploidy, sex determination, sex expression, sterility, structural change, student propagation

Identifier(s) : hybrid vigor, hybrid vigour, idiogram, karyokinesis, outbreeding enhancement, polyploids

Broader term(s) : Onagraceae, Myrtales, eudicots, angiosperms, Spermatophyta, eukaryotes, Asteraceae, Asterales, Poaceae, Poales, commelinids, monocotyledons

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