

Ringwood, G. A.

Hypergeometric algebras and Mendelian genetics. (English) Zbl 0565.17014

Nieuw Arch. Wiskd., IV. Ser. 3, 69-83 (1985).

This paper is mainly expository. The author first defines the concept of hypergeometric algebra. This is essentially the same as a polyploidy algebra. He notes that such an algebra is a genetic algebra. The author then gives a brief discussion of background from genetics. After that he discusses duplication, algebras arising from linkage, mutation, and selection. All the above cases except that of selection lead to genetic algebras and have been studied extensively in the literature. As the author points out, selection is more complicated and does not lead to genetic algebras.

Reviewer: H.Gonshor

MSC:

17D92 Genetic algebras

92D10 Genetics and epigenetics

Cited in **3** Documents

Keywords:

expository article; hypergeometric algebra; polyploidy algebra; genetic algebra; duplication; linkage; mutation; selection