Abstract

Genetic recombination by crossing over and chromatid exchange in eukaryotes is one of the major events leading to variance, among individuals of a population set. Therefore, quantification of the recombination would be central to the understanding of the genetic diversity, genealogical differences, disease variants and its maintenance within the population. Hence in this article an attempt is made to model genetic recombination stochastically and prove the Haldane’s mapping function of genetic recombination by applying exponential series and Poisson process.

References

Stochastic Model for Genetic Recombination because of Crossing over and Chromatid Exchange

- Van der Vaart, A. W. 2008. Statistics in Genetics, Chapters 1,2,11.

Index Terms

Computer ScienceApplied Sciences

Keywords
Gene Crossing-over Recombination mutation stochastic model.