



Special Issue on Recombination and Genetic Linkage

Call for Papers

Recombination in eukaryotic organisms occurs in two ways, the first one is independent assortment that occurs between non-homologous chromosomes. The process happens during the late prophase I of meiosis, and produces a gamete with a mixture of the organism's chromosomes. The second one is crossing over which occurs between homologous chromosomes. This process occurs during prophase I of meiosis in a process called synapsis and results in recombinant chromosomes. Along with crossing over, independent assortment increases genetic diversity by producing novel genetic combinations. However, the probability of chromosomal crossover occurring on the chromosome is related to the distance between the two points. For genes that are closer together, the lower probability of crossover means that the genes demonstrate genetic linkage-alleles for the two genes tend to be inherited together. In one words, the Genetic linkage is the tendency of genes that are located proximal to each other on a chromosome to be inherited together during meiosis. As one of the most important topic in genetics, **recombination and genetic linkage** are of great interests to researchers.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring **recombination and genetic linkage**. Potential topics include, but are not limited to:

- Genetic recombination
- Chromosomal crossover
- Genetic linkage analysis
- Genetic linkage map
- Recombination frequency

Authors should read over the journal's [Authors' Guidelines](#) carefully before submission, Prospective authors should submit an electronic copy of their complete manuscript through the journal [Paper Submission System](#).

Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue - Recombination and Genetic Linkage**” should be chosen during your submission.

According to the following timetable:

Manuscript Due	April 24th, 2014
Publication Date	June 2014



Scientific Research
Open Access

Open Journal of Genetics

ISSN Online: 2158-2882

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