Bioinformatics Notes and Terminology

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1 Molecular Biology

- 1.1 DNA
- 1.2 RNA
- 1.2.1 mRNA
- 2 Genetics/Heredity

2.1 Mendel's First Law of Inheritance

Mendel's maxim that every gene has two alleles, derived from each parent.

2.1.1 Punnet Squares

A **Punnet Square** is a graphical way to deduce all possible combinations of alleles that may be inherited to offspring. In addition, it also tells us what percentage of the offspring contain a particular allele.

2.2 Mendel's Second Law of Inheritance

While Mendel's first law described the behavior among alleles that affect a single phenotype; Mendel's second law describes the relationships among alleles that affect different characteristics.

3 Data Structures and Algorithms Used

- 3.1 Suffix Tree/Array
- 3.2 Skew Algorithm