Bio Final Review

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1 General Information

For this, see the google doc.

2 Genetics

2.1 Sex-linked genes

These are genes located on the sex chromosomes. They will show different phenotype frequencies based on gender.

(1) Gene A is on the X chromosome. A is the wild type, and α is the diseased type. $X^AX^\alpha\times X^AY$:

$$\begin{array}{c|c} X^A Y & X^\alpha Y \\ X^A X^A & X^\alpha X^A \end{array}$$

- 2.2 Pedigrees
- 2.3 Genetic Disorders Sickle Cell, Cystic Fibrosis, Huntington's
- 2.4 Nondisjunction
- 2.5 Recombinant DNA Restriction Enzymes, Ligase, Electrophoresis, GFP, PCR, Selectable Markers, Screens, Plasmids, Transformations
- 2.6 Selective Breeding Hybridization vs Inbreeding

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