

General Genetics & Recitation - Biology 352

Spring 2018



Genetics: scientific study of the underlying basis of heredity (trait transmission across generations) and variation,.... the branch of biology concerned with the study of genes (all aspects) and their variation.

"Watson and Crick discovered this in the 1950's"

Gene: unit factor of heredity; physical entity in cells that is responsible for the transmission of traits from one generation to another (heredity).

"Refinements of the gene were discovered more in the early 1990's"

Divisions of Genetics

Approaches to genetic analysis include studies of inheritance, gene structure, function and change/variation.

1) **Transmission Genetics**

- 1) qualitative
- 2) quantitative

2) **Cytogenesis** - ideas that we know the organization of the genetic material in the cell... leading to knowing of chromosomes.

3) **Molecular/Biochemical Genetics** - studying DNA

4) **Population Genetics** - looking at genetic variants that exist in populations and how it's maintained/changed over time, what are the forces on it, and understanding evolution.

Article Definition of a Gene: a DNA sequence (whose component segments do not necessarily need to be physically contiguous) that specifies one or more sequence-related RNAs/proteins that are both evoked by GRN's (Genetic Regulatory Network) and participate as elements in GRN's, often with indirect effects, or as outputs of GRN's, the latter yielding more direct phenotypic effects.

Exon: a segment of a DNA or RNA molecule containing information coding for a protein or peptide sequence.

Intron: a segment of a DNA or RNA molecule that does not code for proteins and interrupts the sequence of genes.

GMO's: Genetically Modified Organisms

"The world's first genetically engineered drug is **Insulin**"

Somatic Cell Nuclear Transfer: in a controversial milestone, researchers have cloned a pair of macaques (monkeys)

Naked Fetal Syndrome: hairless animal, issues with the epidermal layer of the skin which makes the animal more prone to injuries and diseases

Cell Structure is Closely Tied to Genetic Function

There are two main types of cells:

- **Prokaryotic:** (bacteria and archaea), usually carry a single, circular chromosome consisting of essentially naked DNA
- **Eukaryotic:** (protists, plants, fungi and animals)

General Genetics

L Darling-Hammond



General Genetics:

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