

Concept 12.1

The nucleus contains an information-rich genome.

Genome - the complete set of genetic material in an organism, as defined by the order of bases in the DNA.

Histones - proteins which DNA wraps around

The Human Genome Project :

A rough draft of the entire sequence of the human genome which was government funded and completed in 2000.

Knowing the sequence of nucleotides and the potential benefits are great. Identifying genes will aid in diagnosing, treating, and possibly preventing many common ailments. These include allergies, diabetes, and cancer. Researchers have already identified hundreds of diseases associated genes.