

Chapter 1: The Information in a Human Genome

Eve's Genome:

- the entire sequence of DNA building blocks wound into the nucleus of a WBC
- includes room for environmental influence
- indicates overall genetic health
- information in your genome past, present, and future

Genetics: the study of inherited traits and their variations and transmissions; not to be confused with genealogy

- forensics, bioethics, psychology, and history
- consumer genetics:** enables anyone to learn about their DNA (23 and Me, etc.)
- genetic genealogy:** examines how people are related
- heredity:** concerns the transmission of traits and biological info between generations

Vocabulary:

- genes:** instructions to manufacture protein which determine inherited traits
 - are composed of deoxyribonucleic acid (DNA)
- genome:** complete set of genetic info
- cell:** basic unit of life; contains two genomes
- exome:** part of the genome that encodes protein
- genomics:** compares and analyzes functions of many genes
- bioethics:** addresses issues and controversies that arise in applying medical technology and using genetic information

Deoxyribonucleic Acid: is the basis of life made of; phosphate, sugar, base (ATCG)

- resembles a spiral staircase
- can replicate itself, is accessible to manufacture proteins

Genes: may be composed of DNA or RNA

- when turned on, information in the gene is decoded and amino acids are encoded, makes a protein that folds into a 3D shape and becomes functional

Cystic Fibrosis: missing or abnormal protein-pleiotropy- (cystic fibrosis transmembrane conductance regulator: CFTR)

- CFTR acts like a selective doorway allowing some items to pass and other to not
- if not functioning properly, mucus and secretions build up causing a blockage

The Body: Cells, Tissues, and Organs

- cells undergo differentiation/specialization for different functions (i.e., lung cells, blood cells, kidney cells, etc.)
- stem cells:** divide to yield other stem cells and cells that differentiate
- tissues:** groups of cells with a shared function

The Bigger Picture:

- biological population is a group of individuals that can have healthy offspring together
- genetic population is a large collection of alleles, distinguished by their frequency (gene pool)

Chapter 1the Human Genome Notes

Minjie Lin



Chapter 1the Human Genome Notes:

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Chapter 1the Human Genome Notes**

In some sort of inundated with displays and the cacophony of instantaneous conversation, the profound energy and mental resonance of verbal art often fade into obscurity, eclipsed by the regular barrage of noise and distractions. Yet, located within the lyrical pages of **Chapter 1the Human Genome Notes**, a captivating function of fictional brilliance that impulses with fresh thoughts, lies an unique journey waiting to be embarked upon. Published by a virtuoso wordsmith, this enchanting opus instructions viewers on an emotional odyssey, delicately revealing the latent possible and profound affect embedded within the complicated web of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is main styles, dissect its charming writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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