#### Chapter 12: The Cell Cycle

#### Concept 12.1 – Most cell division results in identical daughter cells

#### Cell division (BOTH prokary and eukary do this)

- o Reproduction of cells
- Passing identical genetic (DNA) info to 2 daughter cells

#### Cell cycle

- Life of cell first formed from parent cell until its own division into 2 daughter cells
- Eukaryotes can perform meiosis (prok cannot)
- Dividing cell
  - Replicates its DNA → distributes 2 copies to both ends of cell → splits into 2 daughter cells

#### Genionne.

- Cell's genetic info
  - o Prokary
    - Single strand of DNA
  - Eukary
    - Several DNA molecules
    - (humans have 2m of DNA FUCKING HUGE)
  - Chromosomes
    - Packaged DNA (which makes replication and distribution manageable)
    - Each chromosome is 1 long strand of DNA.
      - Linear and has proteins
      - Proteins
        - o Keep DNA packaged and control activity of genes

#### Chromatin

- Entire set of DNA and proteins
- When DNA is NOT dividing
- When DNA IS replicating

#### Somatic cells

- Every cell in humans NOT reproductive cells
- 46 Chromosomes

#### o Gametes

- Reproductive cells (sperm / egg)
- One set (half as many chromosomes as somatic cells)
- 23 chromosomes each

#### Sister chromatids

- Joined copies of the original chromosome from replication
- · Contain identical DNA molecule

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