

Biology 101 Study Guide Chapters 22-24

Chapter 22

Key Concepts:

- 1. The cell cycle is the process by which cells divide and reproduce.*
- 2. The cell cycle is controlled by checkpoints.*
- 3. Checkpoints are important for ensuring that cells divide properly.*
- 4. Mutations can occur during cell division, which can lead to cancer.*
- 5. Cancer is a disease of the cell cycle.*
- 6. Cancer cells divide uncontrollably and do not respond to checkpoints.*
- 7. Cancer cells can spread to other parts of the body and cause death.*

Important Events:

- 1. The discovery of the cell cycle by German scientist Rudolf Virchow in 1855.*
- 2. The discovery of cancer cells by Italian physician Giovanni Battista Morgagni in 1761.*
- 3. The discovery of the link between cancer and the cell cycle by German physician Otto Warburg in 1924.*
- 4. The discovery of checkpoints in the cell cycle by American scientist Paul Z. Myers in 1978.*

Notable Figures:

- 1. Rudolf Virchow - German scientist who discovered the cell cycle.*
- 2. Giovanni Battista Morgagni - Italian physician who discovered cancer cells.*
- 3. Otto Warburg - German physician who discovered the link between cancer and the cell cycle.*
- 4. Paul Z. Myers - American scientist who discovered checkpoints in the cell cycle.*

Chapter 23

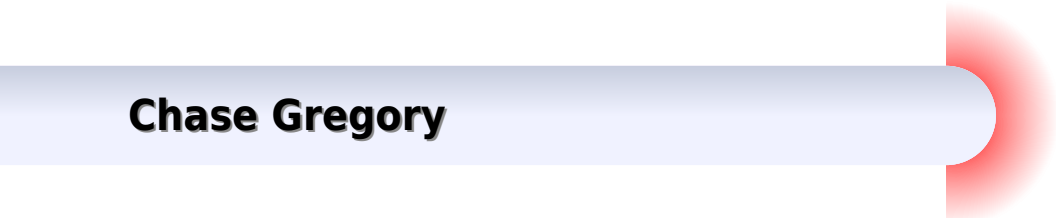
Chapter 23: The Origin of Life

Key Concepts:

-The origin of life is a mystery that scientists have been trying to solve for centuries. There are many theories about how life began, but no one knows for sure.

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