

Name _____

Discovering the World of Cytogenetics

Multiple Choice Questions

1. What is cytogenetics?
 - a) The study of rocks and minerals.
 - b) The study of the structure, function, and behavior of chromosomes within cells.
 - c) The study of weather patterns.
 - d) The study of stars and galaxies.

2. What are karyotypes?
 - a) Visual representations of an individual's chromosomes arranged in a specific order.
 - b) The number of chromosomes in a cell.
 - c) The structure of a cell.
 - d) The size of a chromosome.

3. What is fluorescence in situ hybridization (FISH) used for in cytogenetics?
 - a) To visualize specific DNA sequences within chromosomes.
 - b) To study the behavior of stars and galaxies.
 - c) To analyze weather patterns.
 - d) To study the structure of rocks and minerals.

4. How does cytogenetics contribute to reproductive medicine?
 - a) By screening for chromosomal abnormalities in fetuses.
 - b) By studying the behavior of birds.
 - c) By analyzing weather patterns.
 - d) By developing new types of computers.

5. Why is understanding cytogenetics important?
 - a) It provides insights into the genetic basis of diseases and disorders.
 - b) It helps scientists study the behavior of stars and galaxies.
 - c) It helps scientists understand the formation of planets.
 - d) It helps scientists develop new types of cars.

