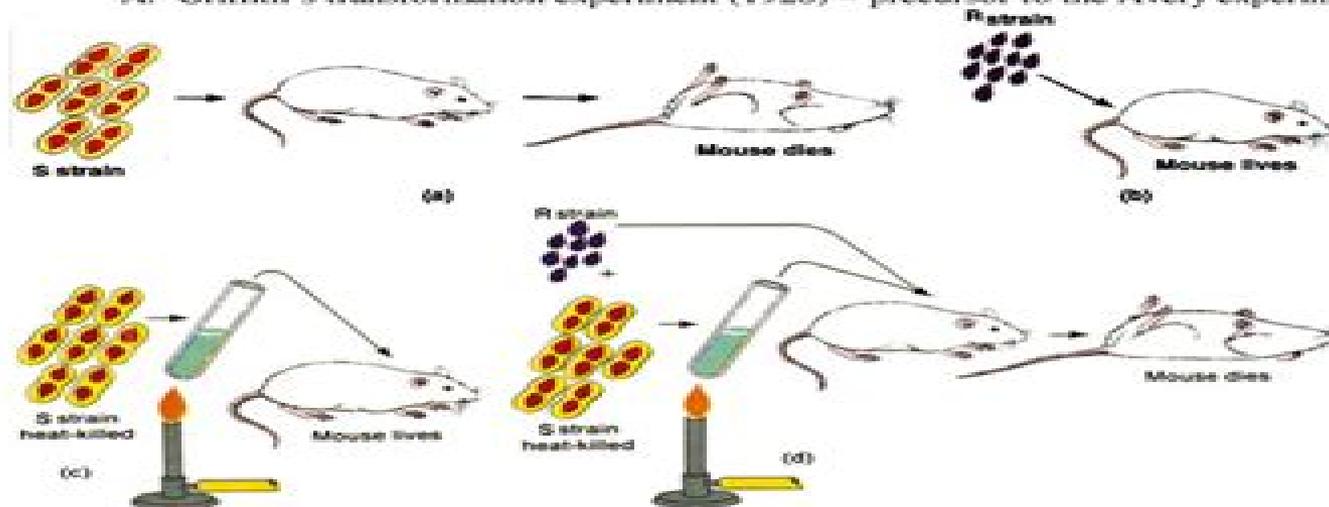


Chapter 11 Lecture Notes: The Structure of DNA

- I. Prelude to the discovery of DNA as the genetic material
- A. Genes were known to be associated with specific character traits but their physical nature was unknown.
 - B. Genes were known to be carried on chromosomes.
 - C. Chromosomes were known to contain DNA and protein.
 - D. The composition of DNA was known, and it was thought to be too "simple" to carry the genetic information.
 - E. Criteria needed for a molecule to be the carrier of genetic information.
 - 1. Ability to store genetic information and transmit it to the cell as needed.
 - 2. Ability to transfer the information to daughter cell with minimal error.
 - 3. Physical and chemical stability so that information is not lost.
 - 4. Capacity for genetic change.
- II. The discovery that DNA was the genetic material
- A. Griffith's transformation experiment (1928) – precursor to the Avery experiment



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