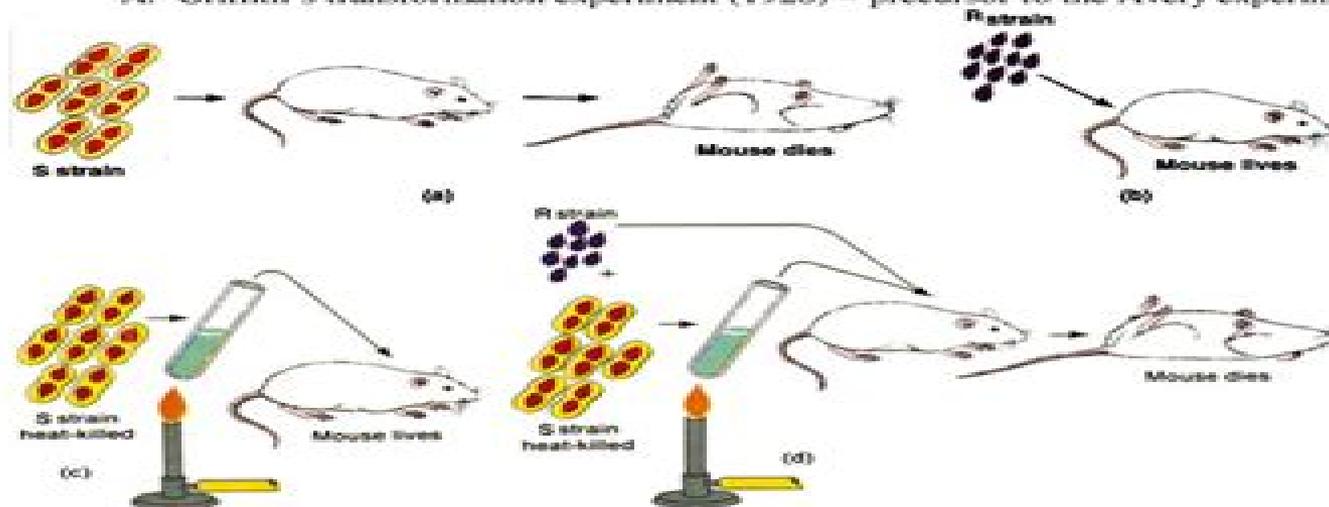


Chapter 11 Lecture Notes: The Structure of DNA

- 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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Chapter 11 Lecture Notes The Structure Of Dna

John Michels (Journalist)



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web answer because the two polar bears or penguins have equal electronegativity they will pull electrons equally hard and in most cases neither will end up with more electrons each polar bear and penguin has an electronegativity of the same value a non polar bond is formed when two polar bears or two penguins are bonded together

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