

# Identifying DNA as the Genetic Material

Biology – Chapter 8/Lesson 1

By Bilal Khalid

## Main Idea:

### Griffith finds a “transforming principle”.

Griffith was investigating two forms of the bacterium that causes pneumonia. The **S form (smooth)** is surrounded by a coating made of carbohydrates. The **R form (rough)** of bacteria does not have a smooth coating. Only the S type killed mice. When the S type was heated, the mice were unaffected.

He then injected mice with killed S bacteria and live R bacteria, and the mice died. He found live S bacteria from blood samples from the dead mice. He concluded that some material was transferred from the killed-S bacteria to the R bacteria. He called this material the **transforming principle**.

Live S Bacteria	Live R Bacteria	Heat-killed S Bacteria	Heat-killed S and Live R bacteria
Surrounded by a carbohydrate coat, looks smooth	Not Surrounded by a carbohydrate coat, looks rough	N/A	N/A
Mice died	Mice lived	Mice lived	Mice died, dead S + living R = living S

## Main Idea:

### Avery identifies DNA as the transforming principle.

Avery's team began by combining living R bacteria with an extract made from S bacteria. They then performed a series of tests to find out if the transforming principle was DNA or protein.

- **Qualitative Tests** Chemical tests showed that *protein was not present, but DNA was present.*
- **Chemical Analysis** The *elements in the extract closely matched those found in DNA.*
- **Enzyme Tests** Three enzymes were added to the extract: protein-breaking enzymes, RNA-breaking enzymes, and DNA-breaking enzymes. *When the protein and RNA were broken down, transformation still occurred, while it stopped when DNA was broken down.*

## Main Idea:

### Hershey and Chase confirm that DNA is the genetic material.

Hershey and Chase were studying viruses that infect bacteria. This type of virus, called a **bacteriophage** (or phage), takes over a bacterium's genetic machinery and directs it to make more viruses. Bacteriophages are made of a DNA molecule surrounded by a protein coat – the perfect structure for the experiment.

*Protein contains sulfur but very little phosphorus, while DNA contains phosphorus but no sulfur.* They grew phages in cultures that contained radioactive isotopes of sulfur or phosphorus. Then they made two experiments:

# Guide Identifying Genetic Material

**A Loxley**



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