

8.1

Identifying DNA as the Genetic Material

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DNA was identified as the genetic material relatively recently, in the 1940s. Molecular biologists were investigating it first as related to the discovery of Griffith's work on the early 1930s, and as the genetic material. Oswald Avery's research together with his colleagues Colin MacLeod and Maclyn McCarty is the genetic material.

Griffith Finds a "Transforming Principle"

In 1928, a microbiologist named Frederick Griffith discovered that bacteria that were nonvirulent (did not cause disease) could become virulent when mixed with the heat-killed pathogenic form of bacteria (see Fig. 8.1).

Griffith used two kinds of samples of the deadly disease-causing bacteria used throughout the first 100 years of the study: virulent (heat-killed) bacteria and nonvirulent (heat-killed) bacteria. When Griffith mixed the heat-killed bacteria with the virulent bacteria and used them to infect mice, the mice died.

Griffith concluded that some "transforming factor" from the virulent bacteria was able to transform the nonvirulent bacteria, which then caused the mice to die. He concluded that although the heat-killed bacteria were dead, they were still able to transform the "transforming principle."



Griffith called these "transformations." Why do you think Griffith called this process "transforming principle?"



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