

Year	Scientist	Experimental results
Late 1860s	Friedrich Miescher	<ul style="list-style-type: none"> <li>isolated nonprotein substance from nucleus of cells; named this substance nuclein</li> </ul>
1920s	Frederick Griffith	<ul style="list-style-type: none"> <li>experimented using mice and two different strains of pneumococcus bacteria (virulent and nonvirulent); observed that when heat-treated virulent pneumococcus was mixed with nonvirulent pneumococcus and was injected into healthy mice death resulted</li> <li>discovered the process of transformation</li> </ul>
1930s	Joachim Hammerling	<ul style="list-style-type: none"> <li>experimented using green alga <i>Acetabularia</i>; observed that regeneration of new appendages was driven by the nucleus-containing "foot" of the alga</li> <li>hypothesized that hereditary information is stored in the nucleus</li> </ul>
1944	Oswald Avery, Maclyn McCarty, and Colin MacLeod	<ul style="list-style-type: none"> <li>demonstrated that DNA was the transforming principle of pneumococcus bacteria</li> </ul>
1949	Erwin Chargaff	<ul style="list-style-type: none"> <li>discovered that in the DNA of numerous organisms the amount of adenine is equal to the amount of thymine, and the amount of guanine is equal to that of cytosine</li> </ul>
1952	Alfred Hershey and Martha Chase	<ul style="list-style-type: none"> <li>used radioactively labelled viruses, infected bacterial cells; observed that the infected bacterial cells contained radioactivity originating from DNA of the virus</li> <li>suggesting that DNA is hereditary material</li> </ul>
1953	Rosalind Franklin	<ul style="list-style-type: none"> <li>produced an X-ray diffraction pattern of DNA that suggested it was in the shape of a double helix</li> </ul>
1953	James Watson and Francis Crick	<ul style="list-style-type: none"> <li>deduced the structure of DNA using information from the work of Chargaff, Franklin, and Maurice Wilkins</li> </ul>

## Complete Lab Exercise 4.1.1: Evidence of Hereditary Material

# Lab Exercise 4 1 1 Evidence Of Hereditary Material

**Michael Hoelscher**



## **Lab Exercise 4 1 1 Evidence Of Hereditary Material:**

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