

Year	Scientist	Experimental results
Late 1860s	Friedrich Miescher	isolated nonprotein substance from nucleus of cells; named this substance nuclein
1920s	Frederick Griffith	- 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 - discovered the process of transformation
1930s	Joachim Hammerling	- experimented using green alga <i>Acetabularia</i>; observed that regeneration of new appendages was driven by the nucleus-containing "foot" of the alga - hypothesized that hereditary information is stored in the nucleus
1944	Oswald Avery, Maclyn McCarty, and Colin MacLeod	demonstrated that DNA was the transforming principle of pneumococcus bacteria
1949	Erwin Chargaff	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
1952	Alfred Hershey and Martha Chase	- used radioactively labelled viruses, infected bacterial cells; observed that the infected bacterial cells contained radioactivity originating from DNA of the virus - suggesting that DNA is hereditary material
1953	Rosalind Franklin	produced an X-ray diffraction pattern of DNA that suggested it was in the shape of a double helix
1953	James Watson and Francis Crick	deduced the structure of DNA using information from the work of Chargaff, Franklin, and Maurice Wilkins

Complete Lab Exercise 4.1.1: Evidence of Hereditary Material

Lab Exercise Evidence Of Hereditary Material

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