

- 1953: James Watson and Francis Crick create double helical model for DNA
- After Morgan showed genes are located on chromosomes, it sparked the debate of DNA and protein being the candidates for the genetic material
- Much was known about proteins
 - Had great heterogeneity and specificity of function
 - Essential for the hereditary material
- Little was known about nucleic acids
 - Their chemical and physical properties seemed to uniform to account for the multitude of inherited traits
- Frederick Griffith: 1928 British Medical Officer
 - Studied streptococcus pneumoniae- pneumonia causing bacteria
 - Had two strains- a pathogenic and a harmless
 - When he killed the pathogenic strain with heat and mixed with the harmless strain , some cells transformed into pathogenic cells
 - Transformation: a change in genotype and phenotype due to assimilation of external DNA by a cell
- Oswald Avery: 1944 American Bacteriologist
 - Built on Griffith's work and proved that DNA was the responsible agent for transformation
 - Colleagues: Madyn McCarty and Colin MacLeod
 - Experiment: Separate each part of the bacteria and test one by one
 - Skepticism arose because not much was known about DNA
- Viruses provided additional evidence for DNA as the genetic material
 - To reproduce, viruses must infect and take over a cell's metabolic machinery
 - Bacteriophages (phages): Viruses that infect bacteria
- 1952: Alfred Hershey and Martha Chase
 - Showed that DNA was the genetic material of a phage was known as T2
 - T2 was all DNA and a little protein
 - Proved that DNA was the genetic material by growing T2 with E. Coli

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