

LAB 5 "Double Helix ":

Questions to be answered on a separate sheet of paper.

1. What role did each of the following people play in the discovery of the structure of DNA? James Watson, Francis Crick, Rosalind Franklin, Maurice Wilkins, Linus Pauling, Erwin Chargaff.
2. Based on the movie, what were two crucial pieces of evidence needed to discover the DNA structure other than the x-ray crystallography photograph? Explain why each piece of evidence was so important.
3. Describe the various approaches to science and the methods of science shown in this movie in terms of deductive and inductive reasoning (look up these terms in your book or online). What are the advantages and disadvantages to the various approaches?
4. Who was awarded the Nobel Prize for the discovery of the structure of DNA?
5. Rosalind Franklin died at a relatively young age. What disease killed her? Thinking about material from class, and Chapter 8, what environmental factors might have caused her to die from this? Explain your answer.