

Topic 7 Nucleic Acids

Questions to include in the nice notebook: Answer in sentences, keep reasonably short.

- Explain the Hershey-Chase experiment (and purpose of it)
- Explain the role of enzymes in DNA replication
- How are DNA base sequences determined (Sanger Sequencing)
- What are tandem repeats?
- What are some functions of base sequences?
- Explain the structure of a nucleosome
- What are the roles of promoters?
- What is epigenetics and how is this related to Lamarckism?
- What is the role of methylation in epigenetics?
- Explain post-translational modification.
- Explain Translation
- Explain protein structure (prim, sec, tert, quart.)

Drawings to include in the nice notebook:

- Replication fork (bottom drawing on page 89), including short (!) explanation what the enzymes do.
- Post-translational modification (p 93)
- Simplified drawing of Translation (p 95)
- Protein structure