

**Virology – Biology W3310/W4310 Spring 2016**  
**Prof V. Racaniello**  
**Study questions for Lecture 8 – Viral DNA replication**

1. What are the different topologies of DNA viral genomes? How are the DNAs replicated?
2. Where in the cell do DNA viruses replicate?
3. Why is viral DNA replication always delayed after infection?
4. Do DNA viral genomes always encode their own DNA polymerase? If not, where does the polymerase come from?
5. What viral proteins are involved in DNA replication, and what are their functions?
6. What is the function of a viral origin of replication?
7. How is the 5'-end problem solved during viral DNA replication?
8. What does the Rb tumor suppressor protein have to do with viral DNA synthesis?