

**Virology Live Fall 2021**  
**Vincent Racaniello**  
**Study Questions for lecture 10 – Assembly of Viruses**

*These questions are intended to summarize key points from this session and prepare you for the exams.*

1. Viral proteins have 'addresses'. What are the functions of these signals?
2. What is a sub-assembly? What are the three strategies for making sub-assemblies?
3. How do *sequential* and *concerted* assembly differ? Provide an example of each.
4. How is the viral nucleic acid packaged into a virus particle and distinguished from other nucleic acids in the cell? Explain for segmented and non-segmented viral genomes.
5. Where do viruses with membranes acquire their envelope? If it is not at the plasma membrane, how do the virus particles get out of the cell?
6. What different types of signals allow viral proteins to concentrate at the sites of budding?
7. Explain how viral budding depends on the Escrt pathway.