

Virology Live Fall 2021

Vincent Racaniello

Study Questions for session 15 – Mechanisms of pathogenesis

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

1. What is tropism? What are some mechanisms that regulate tropism? How might a protease be involved in the tropism of SARS-CoV-2?
2. How are animal models used to study viral disease, and what are the limitations?
3. What is viral virulence? How is it measured? Is it an absolute or relative property?
4. How are viral virulence genes identified? What are the different types of viral virulence genes that have been identified?
5. What is GWAS and SNPs? What do they have to do with identifying human genes that regulate viral virulence?
6. What are other factors that control susceptibility to viral infection?
7. What is immunopathology? How do different components of the immune response cause damage?
8. What is the mechanism of immunosuppression and what are the consequences?