

## Foundations 2 Week 3

### 1. Major Histocompatibility Complex

1. What is allogeneic transplant? How can it be successful? (S7)
  - a. Autologous?
2. What is responsible for distinguishing self from non-self and which chromosome is it found on? (S9)
3. What is MHC Class I responsible for? (S11)
  - a. Describe what HLA-A, B, C do.
4. What is the function of MHC Class II molecules, and how are HLA-DP, DQ, DR structured? (S13)
5. How can MHC alleles can an individual have? (S15)
6. If 2 individuals have the exact same MHC type, can a transplant be successful? (S18)
  - a. Why? (S19)
7. What is an alloantigen? (S20)
8. Which cells are MHC I molecules expressed on? (S24)
  - a. Which cell type doesn't have MHC expression and why?
9. Which cells also express Class II MHC molecules?
10. Where does the peptide bind in MHC molecules? (S26)
  - a. So where do T cells recognize MHC molecules? (S27)
11. Which proteins do MHC I molecules present? (S28)
  - a. Describe the process.
  - b. What do T cells recognize?
  - c. Which protein helps get peptides into the ER? (S35)
12. Describe exogenous pathway with MHC II class molecules. (S31)
13. What and how do CD8/CD4 T cells recognize self? (S32)
14. Why are dendritic cells so important? (S41)
  - a. How do dendritic cells activate both CD4 and CD8 T cells? (S40)
15. What are PAMPS? (S42)
16. Do neutrophils present antigens? (S43)
17. Describe how antigens are presented on B cells. (S44/45)
  - a. Why do T cells and B cells interact and what does this cause?
18. What is the most important area on the antibody? (S47)

### 2. Cell Cycle Control

1. What are the 2 states of the cell cycle? (S5)
  - a. What are the phases of mitosis?
  - b. What are the phases of interphase?
  - c. What is it called when a cell stays in interphase for a long time/forever?
2. What are senescent cells? (S6)
3. What is being checked at these checkpoints? (S7)
  - a. G1
  - b. Metaphase
  - c. G2
4. How do cyclin dependent kinases play a role in the cell cycle? (S8)
5. Describe activation of Cdk's. (S9)

# Major Histocompatibility Complex For Study Guide

**Jianjun Gao**



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