

## **Antibody dependent protection mechanisms**

(recommended readings: Abbas et al. 4th edition, chapter 14;  
Janeway et al., 5th edition, chapter 9)

- neutralizing antibodies
- mucosal immunity and IgA
- antibody dependent cellular cytotoxicity (ADCC)
- effector cells for ADCC and their receptors
- the IgE system
- the complement system

In this lecture the mechanisms by which antibodies mediate host defense will be reviewed. Most of the issues to be discussed are covered in considerable depth in both textbooks. An overview of the mucosal immune system will be provided and the role played by IgA will be discussed. The effector functions of antibodies, the protective role of IgE and the complement pathways will also be covered.

For more information and examples, see Immunobiology, by Janeway, C., Travers, P., Walport, M. and Capra, J., Garland Publishing, 5th edition, 2001 & Cellular and Molecular Immunology by Abbas, A., Pober, J., and Lichtman, A., W B Saunders; 4th edition, 2000.