

Principles of Veterinary Immunology

Long Course

Lecture Checklist

Lecture Title (approximate length)

PPT Book Page #

<input type="checkbox"/> Introduction to the Course (5 min)	
Overview of the Immune System	
<input type="checkbox"/> Overview of Immunology (7.5 min)	pg. 5
<input type="checkbox"/> Overview of Innate Defenses (8 min)	pg. 7
<input type="checkbox"/> Overview of Adaptive Defenses (9.5 min)	pg. 8
<input type="checkbox"/> Overview of the Cells of the Immune System (16.5 min)	pg. 11
<input type="checkbox"/> Overview of Antigen Binding Molecules (10 min)	pg. 14
Innate Immune System	
<input type="checkbox"/> Complement, Part 1 (19.5 min)	pg. 16
<input type="checkbox"/> Complement, Part 2 (8.5 min)	pg. 19
<input type="checkbox"/> Neutrophils (34 min)	pg. 21
<input type="checkbox"/> Eosinophils (8 min)	pg. 26
<input type="checkbox"/> Macrophages (17.5 min)	pg. 28
<input type="checkbox"/> Early Detection and Response to Microbial Invasion (13.5 min)	pg. 32
<input type="checkbox"/> Response Following Detection of Microbe (10.5 min)	pg. 34
<input type="checkbox"/> Macrophage Activation and Types of Inflammation (9.5 min)	pg. 36
<input type="checkbox"/> Cytokines(27.5 min)	pg. 39
Adaptive Immune System	
<input type="checkbox"/> Antigens and Antibodies (16 min)	pg. 43
<input type="checkbox"/> Antigen-Antibody Binding (18 min)	pg. 46
<input type="checkbox"/> Properties that Make Antigens Strong Immunogens (16.5 min)	pg. 49
<input type="checkbox"/> Antibody Isotype Structure and Function (14.5 min)	pg. 52
<input type="checkbox"/> Understanding the Primary and Secondary Immune Response (11.5 min)	pg. 56
<input type="checkbox"/> Major Histocompatibility Complex (MHC) (17 min)	pg. 58
<input type="checkbox"/> Pathways of Antigen Presentation (13 min)	pg. 62
<input type="checkbox"/> MHC and Transplantation (12 min)	pg. 64
<input type="checkbox"/> Generation of Antigen Receptors (26 min)	pg. 67
<input type="checkbox"/> Lymphocyte Identification (16 min)	pg. 74
<input type="checkbox"/> Understanding B cell Response to Antigen and Development of Memory(10 min)	pg. 77

<input type="checkbox"/> Monoclonal Antibodies (7.5 min)	pg. 80
<input type="checkbox"/> Development of Tolerance- Part 1 (6.5 min)	pg. 81
<input type="checkbox"/> Development of Tolerance- Part 2 (9 min)	pg. 83
<input type="checkbox"/> Lymphocyte Circulation (16.5 min)	pg. 85
<input type="checkbox"/> Understanding T _H cells and $\gamma\delta$ T cells (20 min)	pg. 90
<input type="checkbox"/> T cell Help for B cells (12 min)	pg. 95
<input type="checkbox"/> Antigen Trapping and Presentation (7.5 min)	pg. 97
<input type="checkbox"/> Cell Interactions and Response to Microbes (16 min)	pg. 100
<input type="checkbox"/> Cytotoxic T Cells and Natural Killer Cells (16 min)	pg. 105
Clinical Immunology Topics	
<input type="checkbox"/> Immune Response to Viruses (20 min)	pg. 110
<input type="checkbox"/> Immune Response to Tumors and Immunotherapies (27 min)	pg. 113
<input type="checkbox"/> Mucosal Immunology, Part 1 (19.5 min)	pg. 121
<input type="checkbox"/> Mucosal Immunology, Part 2 (19 min)	pg. 126
<input type="checkbox"/> Fetal and Neonatal Immunology, Part 1 (11 min)	pg. 131
<input type="checkbox"/> Fetal and Neonatal Immunology, Part 2 (19 min)	pg. 132
<input type="checkbox"/> Fetal and Neonatal Immunology, Part 3 (12 min)	pg. 136
<input type="checkbox"/> Introduction to Hypersensitivities (7 min)	pg. 138
<input type="checkbox"/> Type I (Immediate, IgE-mediated) Hypersensitivity, Part 1 (11.5 min)	pg. 140
<input type="checkbox"/> Type I (Immediate, IgE-mediated) Hypersensitivity, Part 2 (14.5 min)	pg. 142
<input type="checkbox"/> Type I (Immediate, IgE-mediated) Hypersensitivity, Part 3 (6.5 min)	pg. 145
<input type="checkbox"/> Type II and Type III Hypersensitivities (19 min)	pg. 146
<input type="checkbox"/> Type IV Hypersensitivity (14.5 min)	pg. 150
<input type="checkbox"/> Comparative Immunology: Avian and Aquatic (26.5 min)	pg. 152