

The Florida State University College of Medicine

General Medical Microbiology and Infectious Disease

SCHEDULE

BMS 6301

FALL 2011

General Medical Microbiology and Infectious Disease

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Check locations for course activities in your FSUCOM master OUTLOOK class calendar. Materials for these events can be found at the course's Blackboard Web Site (<u>http://campus.fsu.edu</u>). Note that due to room scheduling conflicts and other exigencies, the schedule is subject to change and the student is advised to check the electronic OUTLOOK version of the schedule frequently. Changes in the schedule will also be e-mailed to the class. The lectures are designed to cover the course content in an organized fashion, illustrating the concepts and allowing time for you to ask questions.

| Date | Session | ΤΟΡΙϹ |
|-----------------|-----------------|--|
| 8/15 10-11am | Introduction | Introduction to the Course: learning objectives; course format; evaluation, testing, and grading policies; expectations; BlackBoard structure. |
| 8/16 & 8/19 | Online Module 1 | Bacterial Classification, Morphology & Cell Structure: must be completed BEFORE the "Microscopy Skills Laboratory". Medically important groups of microorganisms; classification (taxonomy) of bacteria; morphology (cell shapes, gram stain); ultrastructural features (cytoplasm, cell envelope, external features); bacterial spores. |
| 8/23 | | Quiz 1 |
| 8/24 8-9am | Lecture 1 | Bacterial Culture and Physiology: nutrient requirements of bacteria, overview of metabolism, aerobic respiration, anaerobic respiration, fermentation, biosynthesis, bacterial growth. |
| 8/24 9-10am | Lecture 2 | Bacterial Genetics: the bacterial genome (chromosome, extrachromosomal elements, bacteriophages), gene organization (operons, cistrons), DNA replication (binary fission, replication rules & fidelity), mutation & repair (types of mutations, mutagens, DNA repair processes), gene transfer (transposons, extrachromosomal elements), mechanisms of DNA exchange, recombination, genetic engineering, polymerase chain reaction. |
| 8/26 8-10am | Small Group 1 | Bacterial Genetics & Antibiotic Resistance - cases illustrating the role of gene transfer in rapid spread of antibiotic resistance & development of multiple resistance, causes of antibiotic resistance, implications for future practice of medicine. |
| 8/30 | | Quiz 2 |
| 8/30 10-11am | Lecture 3 | Sterilization, Disinfection & Antisepsis: medical importance of methods, definitions and approaches (sterilization, disinfection, antisepsis), mechanisms of action (physical and chemical agents). |
| 8/30 11-12pm | Lecture 4 | The Gram-Positive Cocci – I: <i>Staphylococcus aureus</i> (cutaneous infections, food poisoning, endocarditis, toxic shock syndrome, etc.), <i>Staphylococcus epidermidis</i> (endocarditis, catheter & shunt infections, etc.), <i>Staphylococcus saprophyticus</i> (urinary tract infection) |
| 9/1 10-11am | Lecture 5 | The Gram-Positive Cocci – II: Streptococcus pyogenes (pharyngitis, impetigo, erysipelas, rheumatic fever, etc.), Streptococcus pneumoniae (pneumococcal pneumonia, otitis media, sinusitis, meningitis, etc.), Streptococcus agalactiae (neonatal diseases, other infections), Enterococcus (urinary infections, septicemia, endocarditis). |
| 9/1 11-12pm | Lecture 6 | Bacterial Respiratory Infections (Opportunistic and Respiratory Pathogens): Pseudomonas aeruginosa (pulmonary, skin & urinary infections, etc.), Bordetella pertussis (whooping cough), Haemophilus influenzae (meningitis, otitis, arthritis, etc.), Legionella pneumophila (Legionnaires' Disease, Pontiac fever), Neisseria meningitidis (meningitis, etc.) |

| 9/12 Lecture 7 Anaerobic Metabolism; Gram-Negative Anaerobes & Gram-Positive Anaerobic Bacilli: Costridium pertringens (gas gangrene, food poisoning, etc.), Clostridium Idetani (etanus), Clostridium botulinum (botulism), Clostridium difficie (gastroenterius), Projonibacterium (acne); Bacteriotides, Prevotelia, and Fusobacterium species. 9/12 Lecture 8 Gram-Negative Enteric Bacilli (Facultative Anaerobes): Escherichia coli (gastroenteritis), Nebisolia pneumonia (neuronnia), other members of the family Enterobacteriacae 9/14 Lecture 9 Gram-Negative Enteric & Zoonotics: Salmonelia (gastroenteritis, venterocolitis), Vibrio (cholera, gastroenteritis, etc.), Campylobacter (gastroenteritis), Vibrio (cholera, gastroenteritis, etc.), Campylobacterium diphtheriae (diphtheria), Eucelia (unduant fever, etc.) 9/10am Small Group 3 Aseptic Practice & Nosocomial Infections, medical & economic significance, techniques for prevention of nosocomial infections. 9/20 Small Group 4 Laboratory Diagnosis of Bacterial Diseases – Culture & Handling: cases illuscrating the etiology & epidemiology of nosocomial infections, hepiseria (gonorrhoeace (gonorthea, PID, etc.), Treponema palidum (syphilis), | 9/2 8-10am | Small Group 2 | Molecular & Serologic Diagnostic Methods - cases illustrating the technology of DNA probes, DNA fingerprinting methods, PCR-based methods, precipitation & immunodiffusion, enzyme-linked immunofluorescence assays (ELISA), radioimmunoassay (RIA), etc. |
|--|---------------|-----------------|--|
| 9-10am Anaerobic Bacilli: Closindium perfringens (gas gangrene, tood poisoning, etc.). Closindium tetari (teanus), Closindium botulinum (botulism), Closindium difficile (gastroenteritis), Propionibacterium (acne); Bacteroides, Prevotella, and Fusobacterium species. 9/12 Lecture 8 Gram-Negative Enteric Bacilli (Facultative Anaerobes): Escherichia coli (gastroenteritis), Kiebsiella pneumonia (pneumonia), other members of the family Enterbacteriacae 9/14 Lecture 9 Gram-Negative Enteric & Zonotics: Salmonella (gastroenteritis, enteric fevers, etc.), Shipella (shigellois), Versinia (bubonic plague, enterocolitis), Vibria (cholera, gastroenteritis, gastric & Audoenal ulcers), Francisella tularensis (tularemia). Brucella (undulant fever, etc.) 9/14 Lecture 10 Saram-Positive Zonotic Pathogens and Other Gram Positives: Bacillus anthracis (anthrax), Listeria monocytogenes (neonatal diseases, etc.), Erysipelotinix musiopatine (erysipeloid), and Corynebacterium diphtheria). 9/16 Small Group 3 Aseptic Practice & Nosocomial Infections, medical & economic significance, techniques for prevention of nosocomial infections. 9/20 Out2 3 9/21 Small Group 4 Laboratory Diagnosis of Bacterial Diseases - Culture & Handling: cases illustrating collection & handling of specimens, types of pathogens to be expected for various body fluids & lissues, enc. 9/23 Lecture 11 Gram-Positive Zoonotic Pathogens and Other Gram Positives: Bacillus anthracis (anthrax), Listeria monocytogenes (neonatal diseases, etc.), Erysipelotinix musiopatina (er | 9/9 | | Exam I |
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| | 10/7 | | Exam 2 |

| 10/10 | Lecture 15 | Mechanisms of Viral Pathogenesis: acquisition & infection of target |
|------------------|------------|--|
| 10/10 10-11am | Lecture 15 | tissue, cytopathogenesis (lytic & nonlytic, oncogenic viruses), host anti- |
| 10-11am | | viral defenses, immunopathology, epidemiology of viral diseases, (age, |
| | | |
| 40/40 | 1 | immune status & other host factors), control of viral spread. |
| 10/13 | Lecture 16 | Viral Classification, Structure, & Replication – I: basic characteristics |
| 10-11am | | and classification of viruses, virion structure (non-enveloped viruses, |
| | | enveloped viruses), viral replication: overview, recognition & attachment |
| | | to host cell, penetration. |
| 10/13 | Lecture 17 | Viral Classification, Structure, & Replication – II: viral replication: |
| 11-12pm | | uncoating, comparison of DNA and RNA virus replication, assembly, and |
| | | release from host cells. |
| 10/14 | Lecture 18 | The Human Herpesviruses: Herpesviridae—herpes simplex viruses |
| 8-9am | | (cold sores, genital herpes, encephalitis, etc.), varicella-zoster virus |
| | | (chicken pox, shingles, etc.), cytomegaloviruses (congenital disorders), |
| | | Epstein-Barr virus (mononucleosis, Burkitt's lymphoma) |
| 10/14 | Lecture 19 | Parvovirus, Papillomaviruses, Polyomaviruses, & Poxviruses: |
| 9-10am | | Papillomaviridae—human papilloma viruses (warts, benign tumors, |
| | | cervical cancer, etc.); Polyomaviridae—BK virus (cystitis), JC virus (PML); |
| | | Parvoviridae—B19 (fifth disease, aplastic crisis); Poxviridae—variola virus |
| | | (smallpox), molluscipoxvirus (molluscum contagiosum), etc. |
| 10/17 | Lecture 20 | GI viruses - Reovirus, Non-Respiratory Picornaviruses, Norwalk |
| 10-11am | | virus (Norovirus) and Hepatitis Viruses: Reoviridae—rotaviruses |
| | | (gastroenteritis), coltiviruses (Colorado tick fever); Picornaviridae- |
| | | polioviruses (polio), Coxsackie viruses (meningitis, encephalitis, |
| | | myocarditis, pericarditis, cold-like diseases, conjunctivitis, etc.), |
| | | echoviruses (meningitis, encephalitis, exanthems, myocarditis, |
| | | pericarditis, etc.); Norwalk virus (gastroenteritis); summary of hepatitis |
| | | viruses. |
| 10/18 | | Quiz 5 |
| 10/20 | Lecture 21 | Retroviruses and HIV: Retroviridae—HIV (AIDS) and HTLV (adult acute |
| 10-11am | | T-cell lymphocytic leukemia) |
| 10/21 | Lecture 22 | The Respiratory Viruses I: Rhinovirus, Coronaviruses, Adenovirus: |
| 8-9am | | Picornaviridae—rhinoviruses (common colds); Coronaviridae— |
| o oum | | coronoaviruses (common colds, SARS); Adenoviridae—adenoviruses |
| | | (pharyngitis, conjunctivitis, cold-like infections, gastroenteritis, pneumonia, |
| | | acute respiratory tract disease, etc.). |
| 40/04 | Lecture 23 | The Respiratory Viruses II: Paramyxoviruses & Orthomyxoviruses: |
| 10/21 | | ine respiratory viruses in raramyroviruses a orthomyroviruses. |
| 10/21 9-10am | Leciule 23 | Orthomyxoviridae—influenzaviruses (influenza, other respiratory |
| 10/21 9-10am | | Orthomyxoviridae—influenzaviruses (influenza, other respiratory |
| | | infections, etc.); Paramyxoviridae—parainfluenzaviruses (cold-like |
| | | infections, etc.); Paramyxoviridae—parainfluenzaviruses (cold-like diseases, croup, etc.), mumps virus (mumps), measles virus (measles); |
| | | infections, etc.); Paramyxoviridae—parainfluenzaviruses (cold-like diseases, croup, etc.), mumps virus (mumps), measles virus (measles); rubella virus (German measles); respiratory syncytial virus (colds, |
| | | infections, etc.); Paramyxoviridae—parainfluenzaviruses (cold-like diseases, croup, etc.), mumps virus (mumps), measles virus (measles); |

| 10/25 | Lecture 24 | Rhabdoviruses, Togaviruses, Bunyaviruses, Other Miscellaneous |
|--|--------------------------|---|
| 9-10am | | Viruses & Prions: Rhabdoviridae—rabies virus (rabies); hemorrhagic |
| | | fever viruses; and prions (mad cow disease; vCJD). |
| 10/27 | Online Module 4 | The Arboviruses and Rodent-Borne Viruses - Caliciviruses— |
| 8-10am | | Flaviviridae—flaviviruses (encephalitis, dengue hemorrhagic fever, yellow |
| 0 roann | | fever, etc.); Filoviridae—Ebola & Marburg viruses (hemorrhagic fevers); |
| | | Togaviridae—various encephalitis viruses (flu-like disease, encephalitis, |
| | | |
| | | etc.), Bunyaviridae—various encephalitis viruses (flu-like disease, |
| | | encephalitis) STUDENTS WILL WORK INDEPENDENTLY THROUGH |
| | - | BLACKBOARD TO STUDY THIS MATERIAL |
| 10/28 | Online Module 5 | Basic Biology of Parasites: medical importance of parasites & parasitic |
| 8-10am | | diseases, classification & structure of protozoa (Sarcomastigophora, |
| | | Ciliophora, Apicomplexa, Microspora), classification & structure of |
| | | metazoa (helminths, arthropods), physiology & replication. STUDENTS |
| | | WILL WORK INDEPENDENTLY THROUGH BLACKBOARD TO STUDY |
| | | THIS MATERIAL |
| 10/31 | Lecture 25 | Blood and Tissue Parasites: most important parasites for North |
| 8-9am | | American physicians |
| 11/2 | Lecture 26 | Review of Bacteriology and Virology |
| 9-10am | | Review of Busichology and Thology |
| 11/4 | | Exam 3 |
| 11/4 | Lecture 27 | Basic Biology of Fungi: general characteristics, classification, medical |
| | Lecture 27 | |
| 10-11am | | importance of major fungal groups, fungal cell structure, fungal |
| | | morphology, fungal replication, general information on fungal |
| | | |
| | | pathogenesis. |
| 11/15 | | Quiz 7 |
| 11/15 | Lecture 28 | Quiz 7 Superficial, Cutaneous & Subcutaneous Mycoses: mechanisms of |
| | Lecture 28 | Quiz 7 Superficial, Cutaneous & Subcutaneous Mycoses: mechanisms of fungal pathogenesis, superficial mycoses (pityriasis versicolor, tinea nigra, |
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