

Topics in Virology 2009

24621/24675 - BIOL 6000/8000

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Term: Spring 2009 Levels: Graduate, Credits: 3.000

Scheduled Meeting Times: 9:30 am - 12:30 pm, Fridays, Woodward Hall 354

Jan 12, 2009 - Apr 28, 2009

RECOMMENDED TEXTBOOK (not required): "Understanding Viruses" by [Teri Shors](#) ISBN-10: 0763729329

Syllabus (spring 2009)

Class#	DATE	TOPIC
Class 1	01/16	– Part 1: <i>Basics</i> : Introduction to Virology Part 2: <i>Basics</i> : How to study viruses: general virological methods
Class 2	01/23	– Part 1: <i>Basics</i> : Revisiting molecular biology basics Part 2: <i>Basics</i> : Replication cycles of DNA and RNA viruses
Class 3	01/30	– Part 1: <i>Basics</i> : Pathogenesis of viral diseases Part 2: <i>Basics</i> : Viruses and the immune system
Class 4	02/06	– Part 1: TEST 1 (1h 15') Part 2: Student #1 presentation, discussion. Topic: "Characterization of a new virus"
Class 5	02/13	– Part 1: Student #2 presentation, discussion. Topic: "Pathogenesis of viral diseases" Part 2: Special topic 1: "Viruses and cancer: oncoviruses and oncolytic viruses" Lecture by VG
Class 6	02/20	– Part 1: Student #3 presentation on Special topic 1, discussion. Part 2: Special topic 2: "New advances in viral vaccinology" Lecture by VG
Class 7	02/27	– Part 1: Student #4 presentation on Special topic 2, discussion. Part 2: Special topic 3: "Chemotherapy against viral infections" Lecture by VG
Class 8	03/06	– Part 1: Student #5 presentation on Special topic 3, discussion. Part 2: Special topic 4: "Viral vectors and gene therapy" Lecture by VG
03/13 - Spring Break - no classes		
Class 9	03/20	– Part 1: Student #6 presentation on Special topic 4, discussion. Part 2: Special topic 5: "Virus evolution and emerging virus diseases" Lecture by VG
Class 10	03/27	– Part 1: Students #1+2 presentation on Special topic 5, discussion. Part 2: Special topic 6: "Human immunodeficiency virus and AIDS" Lecture by VG

Class 11 04/03 – Part 1: **Student #2 presentation on Special topic 6, discussion.**

Part 2: **Special topic 7: “Pandemic influenza” Lecture by VG**

04/10 - Spring Recess - no classes

Class 12 04/17 – Part 1: **Students #3+4 presentation on Special topic 7, discussion.**

Part 2: **Special topic 8: “Viruses and bioterrorism”**

Class 13 04/24 – Part 1: **Students #5+6 presentation on Special topic 8, discussion.**

Part 2: **Final Exam (1h 15')**

Grading:

1. Letter grades will be assigned on a 5-point scale (A=92-100%, B=82-91%...)
2. The following will be used to determine your grade:
 - a. Final Exam 30%
 - b. Test 1 grade 20%
 - c. Quizzes 20%
 - d. Your presentation (grading by VG and other students) 20%
 - e. Participation (for attending all classes) 10%

Important rules:

1. Attendance is absolutely required (see 10% you get for attending all classes)! If you miss more than 2 classes, each additional absence will result in 5 points deduction from your final grade.
2. Do not schedule your “doctor appointments”/etc. during my class.
3. Do not be late for my class – plan your lab experiments correspondingly.
4. Absolutely no cell phones during the class.
5. No walking in/out during the class (unless an emergency).
6. Any lecture or paper material can be in your Test or quizzes.
7. Concepts are the key – try to understand not to memorize.
8. I expect you to have a basic knowledge of Molecular Biology, it is your responsibility to revisit it if you need.
8. Slides will be posted to my page:
http://www.bioweb.uncc.edu/Faculty/Grdzlishvili/topics_in_virology.htm