Advanced virology schedule for the Spring of 2015 (paper-based course, discussions)
Room: 1012 Orr-Major, Mondays and Wednesdays, 9:00-11:00 AM

1. January 21: 1st h - Organization meeting, future assignments, midterm and final exams
2nd h – Overview of Dr. Qiu Lab research

2. January 26: Discussion of the Paper in Dr. Qiu field of research (Parvovirus)
   (Students are required to read the paper prior to this class)

3. January 28: RNA pattern recognition receptors (PRRs)
   (Students are required to read the paper prior to this class)

4. February 2: DNA pattern recognition receptors (PRRs)
   (Students are required to read the paper prior to this class)

5. February 4: DNA virus infection-induced apoptosis
   (Students are required to read the paper prior to this class)


7. February 11: Discussion of the Paper, Dr. Gudima's field of research
   The paper: Chang C. et al. Action of inhibitors on accumulation of processed hepatitis delta virus RNAs. 2006. J. Virol., 80:3205-3214. (Students are required to read the paper prior to this class) Presenter/ Discussion leader: Dr. Gudima.

8. February 16: RNA virus infection-induced apoptosis
   (Students are required to read the paper prior to this class)

   (Students are required to read the paper prior to this class)


    The paper: Harris R. et al. DNA deamination mediates innate immunity to retroviral infection. 2003. Cell. 113: 803-809. (Students are required to read the paper prior to this class)

12. March 2: Host-mediated control of viral infection: Host deaminase and HBV infection (case I). (Students are required to read the papers prior to this class). The paper: Suspene R. et al. Extensive editing of both hepatitis B virus DNA strands by APOBEC3 cytidine deaminases in vitro and in vivo. 2005. PNAS. 102: 8321-8326.

hepatitis B virus replication by APOBEC3G. 2004. Science. 303: 1829. Presenter/Discussion leader: Safder. (Students are required to read the paper prior to this class)

14. March 9: Viral infection and host response. The paper: Wieland S. et al. Genomic analysis of the host response to hepatitis B virus infection. 2004. PNAS. 101: 6669-6674. (Students are required to read the paper prior to this class)

15. March 11: Complex mechanisms of virus-virus and virus host interactions. The paper: Freitas et al. Envelope proteins derived from naturally integrated hepatitis B virus DNA support assembly and release of infectious hepatitis delta virus particles. 2014. J. Virol. 88: 5742-5754. Presenter/Discussion leader: Dr. Gudima. (Students are required to read the paper prior to this class)

SPRING BREAK (March 16)

16. March 23: Midterm exam
Student presents a paper of choice and leads a discussion - 35 min each

17. March 25: Overview of Dr. Lu Lab research

18. March 30: Discussion of the Paper, Dr. Lu field of research
(Students are required to read the paper prior to this class)

19. April 1: Molecular epidemiology
(Students are required to read the paper prior to this class)

20. April 6: HCV and host response
(Students are required to read the paper prior to this class)

21. April 8: Persistent infection: EBV
(Students are required to read the paper prior to this class)

22. April 13: Persistent infection: HCV
(Students are required to read the paper prior to this class)

23. April 15: Emerging virus: Ebola viruses
(Students are required to read the paper prior to this class)

(Students are required to read the paper prior to this class)

25. April 22: Virus infection-caused cell cycle arrest
(Students are required to read the paper prior to this class)

26. April 27: Viruses and microRNAs: Herpes Virus
(Students are required to read the paper prior to this class)
27. April 29: Students will meet with the lectures to address their questions regarding the preparation of the grant assignment for the Finals.

28. May 4: Last day of preparation of the Abstract/ Specific Aims/Significance/Innovation. Each student will turn in completed Abstract/Aims before 10:00 PM Students allowed to use this day to finalize preparations to the Finals.

29. May 7: Finals
Students present and defend Abstract/ Specific Aims of the grant/discussion - 35 min each. Other participants ask questions.