

ANNOUNCING

MOLECULAR PATHOGENESIS, VME 6464, 3 credits, section number 7013 (also offered as 3 1-credit modules as VME 6934, MOLECULAR PATHOGENESIS 1, 2 and 3, section numbers 18CA, 18CF, 18C1), to be taught Spring Semester 2014.

This is a graduate level reading/discussion course focusing on data analysis and interpretation in primary research publications. Grades will be based 70% on classroom participation in discussions and 30% on assigned problems and projects. Prerequisites: graduate level courses in biochemistry, molecular biology or genetics or permission of course coordinator.

Instructors: Drs. Tony Barbet, John Dame

Topics will include:

Bioinformatics/whole genome analyses as applied to emerging tick-borne diseases. Classes will include lectures, computer-based demonstrations and student projects.

Critical data and decision points in the science guiding the control of malaria through vaccination and drug treatments. Students will be guided to identify the critical data and decision points along the development pathway for first generation vaccines and the critical issues that continue to influence development of novel malaria vaccines and control by drug treatment, such as development of drug resistant parasites.

Molecular Pathogenesis 1 will focus on bioinformatics as applied to gene and genome analyses of small-genome prokaryotes (Jan. 7-Feb. 7).

Molecular Pathogenesis 2 will focus on papers/discussions on control of malaria. Students will be provided with high-throughput Illumina genome sequence data on malaria parasites from Haiti (Feb. 11-Mar. 21).

Molecular Pathogenesis 3 will focus on bioinformatics analysis of the Haitian sequence data. Students will develop projects and analyze these data to develop novel concepts of potential value for control of malaria in Haiti. In order to take Molecular Pathogenesis 3, students will be required to also take the first 2 modules. (Mar. 25-Apr. 25)

A provisional time has been set for the class to meet, 8:00 am-9:30 am, Tuesdays and Fridays, Room V3-170, third floor conference room, Veterinary Academic Building (Bldg. 1017), SW 16th Ave. **First organizational meeting: Tuesday January 7th, 2014, 8:00 am Room V3-170.**

For further information please contact course coordinator, Dr. Tony Barbet, Tel. (352) 294-4119; email, barbet@ufl.edu or Dr. John Dame, Tel. 294-4118; email, damej@ufl.edu