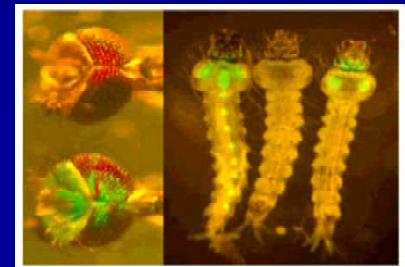
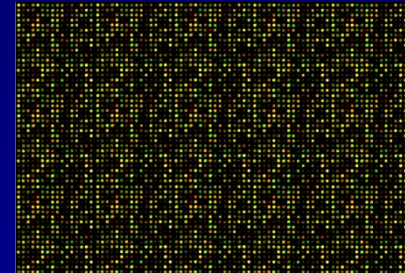


Molecular Entomology 260.664.01

4th Term; Monday & Friday 2:00 – 3:20

JH Bloomberg School of Public Health

- Introduction to Molecular Entomology
- Insect Developmental Biology
- Transposable Elements
- Insect Genomes & Genome Organization
- Endosymbionts and Disease Control
- Phylogenetics & Molecular Evolution
- Host Seeking & Olfaction
- Molecular Ecology & Population Biology
- Insect Immunity to Human Pathogens
- Insect – Human Pathogen Interactions
- Entomological Strategies for Disease Control
- Genetic Engineering of Insects
- Trends & Advances in Molecular Entomology



WANTED



The tsetse fly is responsible for spreading both Sleeping Sickness (Human African Trypanosomiasis) and “Nagana” (wasting disease) among livestock in Sub-Saharan Africa. More than 45,000 cases are reported annually; however, the actual prevalence of cases is estimated to be close to 500,000. This disease exacts a devastating toll on human health and agricultural economies. No vaccine exists.

To learn more about how you can help prevent the spread of disease, REGISTER FOR THE COURSE (below).

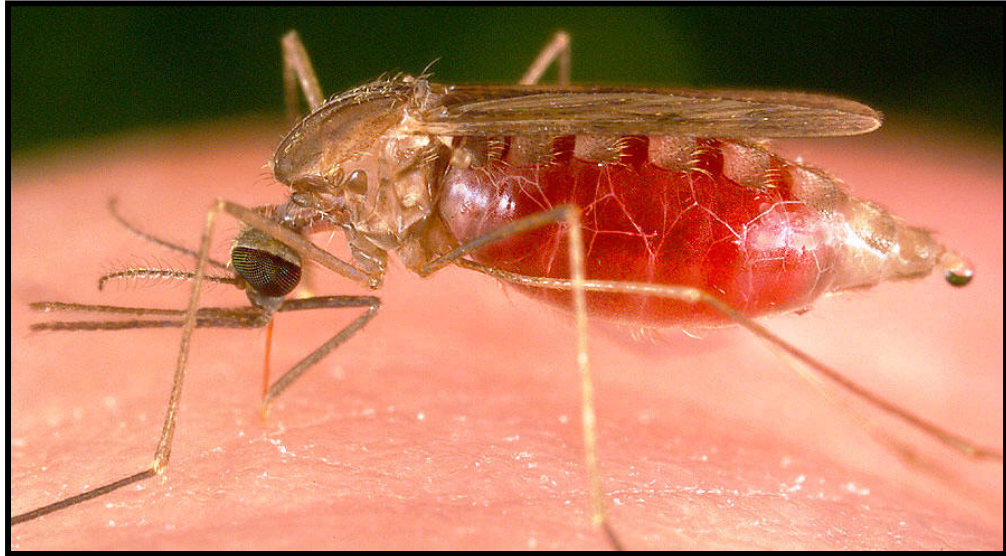
Molecular Entomology Course 260.664.01: 4th Term

DAY/TIME: Monday, Friday 2:00 – 3:20,

LOCATION: John Hopkins School of Public Health, MMI

Contact e-mail: gdimopou@jhsph.edu

WANTED



The *Anopheles* mosquito is responsible for the spread of Malaria all across the tropics. It is estimated that 2 million people (mostly children) die each year from the disease; this amounts to over 2,700 deaths per day, or 2 deaths per minute (the time it takes to read this ad). No vaccine exists.

To learn more about how you can help prevent the spread of this disease, REGISTER FOR THE COURSE (below).

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WANTED



The *Aedes* mosquito is responsible for the spread of Dengue Fever and Dengue Hemorrhagic Fever, Yellow Fever, West Nile and a host of other viral diseases across the globe. More than 2.5 billion people are at risk of Dengue alone, with tens of millions of cases occurring each year. There is no vaccine against Dengue.

To learn more about how you can help prevent the spread of these diseases, [REGISTER FOR THE COURSE](#) (below).

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WANTED



The Kissing Bug is responsible for spreading Chagas disease (*American Trypanosomiasis*) in the New World. Currently, there are some 100 million (25% of the Latin American population) at risk of acquiring Chagas, ~16-18 million are infected each year, and 50,000 of whom succumb to this disease. No vaccine exists.

To learn more about how you can help prevent the spread of these diseases, [REGISTER FOR THE COURSE](#) (below).

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WANTED:

GENETICALLY TRACTABLE MODEL ORGANISM(S)



Learn about molecular and genetic approaches used in the study of *Drosophila* and other insects (involved in transmitting some of the world's worse diseases). Learn the cutting-edge methodologies used in the study of their physiology, development, ecology, genomics and molecular evolution.

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