

**Postdoctoral Associate Position
Department of Entomology
University of California, Riverside**

Chemical Ecology and Orientation Behavior of *Aedes aegypti*

The range of the mosquito vector of dengue, yellow fever and chikungunya, is expanding in California. Although this species has been intensively investigated, the odor and other cues mediating its orientation to human hosts and artificial lures are not fully understood.

We seek to improve the sensitivity of traps used to survey for *Aedes aegypti*. Field observations in California demonstrated that very few of the female *Ae. aegypti* attracted to the vicinity of survey traps are actually captured. We expect that improvements in surveillance can be achieved by changes in the composition of the lure (carbon dioxide plus other odors), by optimizing the odor plume's structure, and by modifying trap design to enhance efficiency of capture and retention. Among the approaches that we expect to use are wind-tunnel and field observations using video recording in 3-D of how mosquitoes orient to lures and traps, direct measurements of plume structure, and identification of new attractive odors.

This position is funded by NIH for two years and is available immediately. Salary commensurate with experience.

Please provide a CV and direct inquiries to:

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