



## Positions Available MS/PhD/Post-doc

Our group is looking for candidates interested in pursuing research in sensory biology of arthropod pests and vectors of disease (ticks and insects). Using neurophysiology and chemical ecology (Scheidler et al., 2015, Sullivan et al., 2014; Josek et al., 2021; Hickner et al., 2020), molecular evolution (Hickner et al., 2016; 2020), biochemistry and circadian biology (Rund et al., 2013), and chemo-evolutionary methods (Reidenbach et al., 2014), we explore the question, “What do arthropods smell and how?” And we aim to extend this basic understanding to develop novel management strategies (Syed, 2015).

Candidates with interest or background in arthropod behavior, chemical ecology, neurogenetics, molecular evolution or bioinformatics are encouraged to apply. Our lab is fully equipped with tools and techniques to collect, isolate and identify odors using GC-Mass spectrometry and GC linked electrophysiological measurements (like GC-antennography/GC-single neuron recordings); clone, heterologously express and functionally characterize insect olfactory receptors; and measure and quantify behavior using olfactometers and wind tunnels equipped with Noldus' EthoVision and The Observer. The University of Kentucky offers exceptional core facilities for imaging, microscopy, genomics and proteomics. Outside the diverse expertise in our Entomology department, we also collaborate with colleagues/labs from the vibrant department of biology (Drs. Doug Harrison, Catherine Linnen) and the medical college (Drs. Tim McClintock, Brian Stevenson) at the University of Kentucky. Please direct your inquiries with CV, synopsis of research experience, and the contact details of three referees to:

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