**Title:** Small Molecule Mosquitocide for Anopheles stephensi and Aedes aegypti species

**Invention:** Inventors at the University of Arizona have discovered a novel compound with a strong larvicidal effect on two mosquito species. The compound synthesis can be done in only a few steps and the compounds show a high degree of chemical specificity.

**Background:** Numerous diseases are spread by mosquitoes including Dengue virus, a mosquito-borne virus that infects ~250 million humans per year. Larviciding can be an effective strategy of Integrated Pest Management (IPM) where mosquito larvae are terminated before reaching maturation.

**Applications:**
- Mosquitocides
- Larvicides
- Global health
- Agriculture

**Advantages:**
- Results in high mosquito larvae mortality rates
- Provides a high degree of chemical specificity
- Requires only a few steps
- Mild reaction conditions and high yields
- Results in minimal impact on the environment

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