A microclimatological approach with human mimicking traps for vector surveillance

Gaku MASUDA

Graduate School of Global Environmental Studies, Kyoto University

* Correspondent author: Dr. Gaku MASUDA
                         E-mail: masuda.gaku.2a@kyoto-u.ac.jp

One of the difficulties of human bite collection is to regulate the attraction of mosquitoes. On the other hand, traps mimicking humans, using chemical attractants, ensure more reliable scientific results. While short-term and seasonal environmental conditions of the study site are largely unknown, it is necessary to precisely monitor microclimatological parameters such as rain event, humidity, temperature, lightness, and breeze in the forest, in order to understand the daily activity of *anopheles* mosquitoes.

This presentation focuses on how we can set up such a high-density and high-frequency monitoring system, including trap recorders, in a less expensive and semi-automated way.