

### 3-4-1. Confirmation as Malaria Vector of *Anopheles lesteri* (Diptera: Culicidae) by Feed to Mosquitoes Blood of a Malaria Patient in Korea

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Field female *Anopheles lesteri*, *An. pullus* and *An. sinensis* adult caught from a cow shed were exposed to arm of malaria patient for malaria vector confirmation, then mosquitoes were bred for 2 weeks could be developed from malaria protozoa to sporozoites. Thereafter, salivary gland of each mosquitoes was cut to investigate whether the sporozoites was formatted or not. The result from above, the sporozoites were confirmed in one *An. lesteri* of and one individual, and five *An. sinensis* of six individuals. We could reconfirm that *An. sinensis* is the main vector to transmit malaria and, also first found out *An. lesteri* is able to carry with Korean malaria protozoa as well as *An. sinensis* in Korea. Therefore, we consider that diversified study is needed to managing project of malaria.