**Additional file 1.** **Table S1. Table showing percentage infection of *Wolbachia* in 41 mosquito species collected from twelve Singapore localities.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mosquito species | Localities | | | | | | | | | | | | Total | Infection (%) | Super-group |
| BN | BA | BB | DF | KR | KJ | M | RR | SBG | SBL | T | U |
| *Aedeomyia catastica* | - | 0/1 | - | - | - | - | - | - | - | - | - | - | 0/1 | 0.0 | - |
| *Aedes aegypti* | 0/1 | - | - | - | - | - | - | - | - | - | - | 0/13 | 0/14 | 0.0 | - |
| *Aedes albolineatus* | - | - | - | - | - | - | 0/3 | - | - | - | - | - | 0/3 | 0.0 | - |
| *Aedes albopictus* | - | - | - | 6/10 | 6/10 | 3/6 | 6/11 | - | - | - | - | - | 21/37 | 56.8 | A, B |
| ***Aedes amesii*** | - | - | - | - | - | - | - | - | - | 6/10 | - | - | 6/10 | 60.0 | A |
| ***Aedes annandalei*** | - | - | - | - | 3/4 | - | 8/9 | - | - | - | - | - | 11/13 | 84.6 | A |
| *Aedes gardnerii* | - | - | - | - | - | - | 1/1 | - | - | - | - | - | 1/1 | 100.0 | A |
| *Aedes malayensis* | - | - | - | 1/2 | 13/16 | 0/2 | - | - | - | - | - | - | 14/20 | 70.0 | A |
| *Anopheles barbirostris* complex | - | - | - | 0/2 | - | - | 0/2 | - | - | - | - | - | 0/4 | 0.0 | - |
| *Anopheles paraliae* | - | - | - | - | - | 0/2 | - | - | - | - | - | - | 0/2 | 0.0 | - |
| *Anopheles sinensis* | - | 0/12 | - | - | - | - | - | - | - | - | - | - | 0/12 | 0.0 | - |
| *Armigeres kesseli* | - | - | - | - | 3/3 | - | - | - | - | - | - | - | 3/3 | 100.0 | B |
| *Coquillettidia crassipes* | - | - | - | 2/2 | 6/7 | 4/4 | - | - | - | - | - | - | 12/13 | 92.3 | B |
| *Culex (Lophoceramyia)* spp.\* | - | - | - | - | 0/1 | 0/2 | 1/8 | - | - | - | 0/2 | - | 1/13 | 7.7 | B |
| *Culex bicornutus* | - | - | - | - | - | - | 0/1 | - | - | - | - | - | 0/1 | 0.0 | - |
| *Culex bitaeniorhynchus* | - | - | - | - | 0/1 | - | - | - | - | - | - | - | 0/1 | 0.0 | - |
| *Culex brevipalpis* | - | - | - | 0/1 | - | - | 0/2 | - | - | - | - | - | 0/3 | 0.0 | - |
| *Culex foliatus* | - | - | - | - | - | - | 0/2 | - | - | - | - | - | 0/2 | 0.0 | - |
| *Culex nigropunctatus* | - | - | - | - | - | 0/1 | 0/2 | - | - | - | - | - | 0/3 | 0.0 | - |
| ***Culex pseudovishnui*** | - | - | - | - | 11/12 | - | 4/4 | - | 3/5 | 1/1 | - | - | 19/22 | 86.4 | B |
| *Culex quinquefasciatus* | - | 5/8 | - | - | - | - | - | - | - | - | - | - | 5/8 | 62.5 | B |
| *Culex sitiens* | - | - | - | - | - | - | - | - | - | 2/4 | - | - | 2/4 | 50.0 | B |
| *Culex tritaeniorhynchus* | - | - | - | - | - | 2/5 | - | - | - | 0/1 | 0/1 | - | 2/7 | 28.6 | UC |
| *Culex vishnui* | - | - | - | - | - | - | 0/2 | - | - | - | 0/3 | - | 0/5 | 0.0 | - |
| *Malaya genurostris* | - | - | 2/4 | - | 0/1 | 4/13 | - | - | 0/1 | - | - | - | 6/19 | 31.6 | B |
| *Mansonia* sp. 1 | - | - | - | - | - | 3/3 | - | - | - | - | - | - | 3/3 | 100.0 | B |
| *Mansonia* sp. 2 | - | - | - | - | - | - | 0/2 | - | - | - | - | - | 0/2 | 0.0 | - |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mosquito species | Localities | | | | | | | | | | | | Total | Infection (%) | Super-group |
| BN | BA | BB | DF | KR | KJ | M | RR | SBG | SBL | T | U |
| *Mimomyia luzonensis* | - | - | - | - | - | 0/1 | - | - | - | - | - | - | 0/1 | 0.0 | - |
| *Tripteroides* sp. (dark) | - | - | - | - | 0/7 | - | 1/2 | - | - | - | - | - | 1/9 | 11.1 | UC |
| ***Uranotaenia obscura*** | - | - | - | 2/4 | - | - | 2/2 | 1/1 | - | - | - | - | 5/7 | 71.4 | A |
| *Uranotaenia* sp. | - | - | - | 1/2 | - | - | - | - | - | - | - | - | 1/2 | 50.0 | A |
| ***Uranotaenia trilineata*** | - | - | - | - | - | - | 1/1 | - | - | - | - | - | 1/1 | 100.0 | B |
| ***Verrallina butleri*** | - | - | - | - | - | 1/1 | - | - | - | - | - | - | 1/1 | 100.0 | UC |
| ***Verrallina* sp.** | - | - | - | - | - | - | - | 1/5 | - | - | - | - | 1/5 | 20.0 | UC |
| ***Zeugnomyia gracilis*** | - | - | - | 1/2 | - | - | 1/13 | 1/4 | - | - | - | - | 3/19 | 15.8 | B |
| Total | 0/1 | 5/21 | 2/4 | 13/25 | 42/62 | 17/40 | 25/67 | 3/10 | 3/6 | 9/16 | 0/6 | 0/13 | 119/271 | 43.9 |  |

Bolded species names represent *Wolbachia*-infected species with infection that have not been reported previously. Abbreviations: *BN* Bedok North Avenue 3, *BA* Bishan-Ang Mo Kio Park, *BB* Bukit Batok Town Park, *DF* Dairy Farm Nature Park, *KR* Kent Ridge Park, *KJ* Kranji Marshes, *M* Mandai Track 15, *RR* Rifle Range Road, *SBG* Singapore Botanic Garden, *SBL* Sungei-Buloh, *T* Tampines Eco-Green, *U* Ubi Avenue 1. UC denotes *Wolbachia* infections that were unclassified to supergroup [1]. Their DNA sequences were either too short (< 400bp) or had alignment issues during phylogenetic analyses. \**Culex (Lophoceramyia)* spp. consists of 7 unique species which are not identified.

**References**

1. Zhou W, Rousset F, O’Neill S. Phylogeny and PCR-based classification of *Wolbachia* strains using *wsp* gene sequences. Proc R Soc London Ser B Biol Sci. 1998;265:509–15.