

Supplementary Table S1. Variation in infection and dissemination rates between dengue serotypes in *Ae. aegypti*. Percentage (number tested) of mosquitoes with detectable dengue infection in bodies or legs and wings at various times after feeding virus from one of the four DENV serotypes. Comparisons were made using Fisher's Exact test. [†] Mosquitoes infected with DENV-1 strain NC-483 did not survive to 14 d and therefore DENV-1 was excluded from the analysis of samples at this time point.

Serotype	3 dpe		6 dpe		10 dpe		14 dpe	
	Bodies	Legs/Wings	Bodies	Legs/Wings	Bodies	Legs/Wings	Bodies	Legs/Wings
DENV-1	7.5 (40)	0 (40)	22.5 (40)	12.5 (40)	40.0 (40)	27.5 (40)	nt [†]	Nt [†]
DENV-2	5.0 (40)	0 (40)	20.0 (40)	7.5 (40)	50.0 (40)	27.5 (40)	37.5 (40)	22.5 (40)
DENV-3	2.5 (40)	0 (40)	2.5 (40)	2.5 (40)	15.0 (40)	5.0 (40)	25.0 (40)	15.0 (40)
DENV-4	2.5 (40)	0 (40)	10.0 (40)	5.0 (40)	17.5 (40)	10.0 (40)	27.5 (40)	15.0 (40)
<i>p-value</i>	0.84	NA	0.024	0.41	0.016	0.008	0.538†	0.72†

Supplementary Table S2. Variation in infection and dissemination rates between dengue serotypes in *Ae. albopictus*. Percentage (number positive / number tested) of *Ae. albopictus* mosquitoes with detectable dengue infection in bodies or legs and wings at various times after feeding on virus from one of the four DENV serotypes. Comparisons were made using Fisher's Exact test.

Serotype	3 dpe		6 dpe		10 dpe		14 dpe	
	Bodies	Legs/Wings	Bodies	Legs/Wings	Bodies	Legs/Wings	Bodies	Legs/Wings
DENV-1	0 (0/40)	0 (0/40)	20.0 (8/40)	10.0 (4/40)	27.5 (11/40)	15 (6/40)	40.0 (16/40)	22.5 (9/40)
DENV-2	5.0 (2/40)	0 (0/40)	12.5 (5/40)	2.5 (1/40)	30.0 (12/40)	20 (8/40)	30.0 (12/40)	20.0 (8/40)
DENV-3	0 (0/40)	0 (0/40)	0 (0/40)	0 (0/40)	10.0 (4/40)	5 (2/40)	42.5 (17/40)	27.5 (11/40)
DENV-4	5.0 (2/40)	0 (0/40)	5.0 (2/40)	5.0 (2/40)	7.5 (3/40)	2.5 (1/40)	12.5 (5/40)	7.5 (3/40)
<i>p-value</i>	0.33	NA	<0.001	0.012	0.014	0.019	0.011	0.11