

Mosquito species	Vector competence parameters	Explanatory variables	Modality 1			Modality 2			p-value < 0.05 Emmeans post-hoc analysis
			Identifier	Vector competence true mean	Vector competence estimated marginal mean	Identifier	Vector competence true mean	Vector competence estimated marginal mean	
<i>Aedes albopictus</i>	IR	dpe ML	7 dpe AL_Philippe	93.8% [79.9 - 98.3%] (30/32)	93.8% [78.2 - 98.4%]	14 dpe AL_Philippe	69.4% [53.1 - 82.0%] (33/96)	69.4% [52.8 - 82.2%]	0.0206
		ML dpe	-	-	-	-	-	-	-
	DE	dpe	-	-	-	-	-	-	-
		ML	AL_Beauvallon	66.1% [53.4 - 76.9%] (39/59)	64.8% [50.8 - 76.6%]	AL_Kaweni	29.7% [19.9 - 41.8%] (19/64)	24.3% [13.9 - 39.0%]	0.0027
			AL_Providence	60.8% [47.1 - 73.0%] (31/51)	60.6% [46.6 - 73.0%]				0.0104
		dpe ML	7 dpe AL_Beauvallon	45.8% [27.9 - 64.9%] (11/24)	45.8% [27.5 - 65.4%]	14 dpe AL_Beauvallon	80.0% [64.1 - 90.0%] (28/35)	80.0% [63.6 - 90.2%]	0.0083
			7 dpe AL_Gilles	33.3% [18.0 - 53.3%] (8/24)	33.3% [17.6 - 53.9%]	14 dpe AL_Gilles	75.0% [56.6 - 87.3%] (21/28)	75.0% [56.1 - 87.6%]	0.0036
			7 dpe AL_Kaweni	9.4% [3.2 - 24.2%] (3/32)	9.4% [3.1 - 25.4%]	14 dpe AL_Kaweni	50.0% [33.6 - 66.4%] (16/32)	50.0% [33.3 - 66.7%]	0.0012
		ML dpe	AL_Providence 7 dpe	54.2% [35.1 - 72.1%] (13/24)	54.2% [34.6 - 72.5%]	AL_Kaweni 7 dpe	9.4% [3.2 - 24.2%] (3/32)	9.4% [3.1 - 25.4%]	0.0198
			AL_Philippe 7 dpe	50.0% [33.6 - 66.4%] (16/32)	50.0% [33.3 - 66.7%]				0.0270
			AL_Beauvallon 14 dpe	80.0% [64.1 - 90.0%] (28/35)	80.0% [63.6 - 90.2%]	AL_Philippe 14 dpe	41.7% [27.1 - 57.8%] (15/36)	41.7% [26.9 - 58.1%]	0.0245
	TE	dpe	7 dpe	12.0% [8.3 - 17.0%] (26/217)	11.0% [7.5 - 16.1%]	14 dpe	23.6% [18.5 - 29.5%] (53/225)	23.8% [18.0 - 30.7%]	0.0013
		ML	AL_Providence	29.4% [18.7 - 43.0%] (15/51)	28.0% [17.3 - 41.9%]	AL_Kaweni	6.3% [2.5 - 15.0%] (4/64)	5.7% [2.1 - 14.5%]	0.0471
			AL_Gilles	30.8% [19.9 - 44.3%] (16/52)	29.2% [18.3 - 43.0%]				0.0332
<i>Aedes aegypti</i>	IR	-	-	-	-	-	-	-	-
	DE	dpe	7 dpe	70.3% [58.3 - 80.1%] (45/64)	72.7% [59.7 - 82.8%]	14 dpe	87.5% [77.9 - 93.3%] (63/72)	88.8% [79.0 - 94.4%]	0.0196
		ML	AG_Moroni	67.2% [55.0 - 77.4%] (43/64)	68.3% [55.5 - 78.8%]	AG_TBassins	90.3% [81.3 - 95.2%] (65/72)	90.8% [81.5 - 95.6%]	0.0019
	TE	ML	AG_Moroni	21.9% [13.5 - 33.4%] (14/64)	18.9% [10.4 - 31.9%]	AG_TBassins	59.7% [48.2 - 70.3%] (43/72)	60.0% [48.3 - 70.7%]	<0.0001
		dpe ML	7 dpe AG_Moroni	9.4% [3.2 - 24.2%] (3/32)	9.4% [3.1 - 25.4%]	14 dpe AG_Moroni	34.4% [20.4 - 51.7%] (11/32)	34.4% [20.2 - 52.1%]	0.0226
		ML dpe	AG_Moroni 7 dpe	9.4% [3.24 - 24.22%] (3/32)	9.4% [3.1 - 25.4%]	AG_TBassins 7 dpe	62.5% [45.3 - 77.1%] (20/32)	62.5% [44.9 - 77.3%]	0.0001