

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	21 dpe	45.8% [40.2 - 51.5%] (135/295)	48.7% [42.7 - 54.7%]	28 dpe	57.8% [51.7 - 63.5%] (153/265)	62.0% [55.3 - 68.3%]	0.0063
		ML	AL_Combani	74.4% [59.8 - 85.1%] (32/43)	74.3% [59.0 - 85.4%]	AL_Beauvallon	45.4% [36.7 - 54.3%] (54/119)	45.5% [36.7 - 54.5%]	0.0401
			AL_Gilles	63.4% [51.8 - 73.6%] (45/71)	63.7% [51.9 - 74.0%]	AL_Providence	40.6% [32.5 - 49.3%] (52/128)	40.2% [32.0 - 49.0%]	0.0061
									0.0387
	DE	dpe	-	-	-	-	-	-	-
		ML	-	-	-	-	-	-	-
		dpe ML	14 dpe AL_Beauvallon	15.6% [6.9 - 31.8%] (5/32)	15.6% [6.7 - 32.5%]	21 dpe AL_Beauvallon	44.7% [31.4 - 58.8] (21/47)	44.7% [31.3 - 58.9%]	0.0259
			21 dpe AL_Combani	83.3% [64.2 - 93.3%] (20/24)	83.3% [63.1 - 93.6%]	28 dpe AL_Combani	42.1% [23.1 - 63.7%] (8/19)	42.1% [22.6 - 64.4%]	0.0073
			14 dpe AL_Gilles	8.3% [2.3 - 25.9] (2/24)	8.3% [2.09 - 27.9%]	28 dpe AL_Gilles	56.5% [36.8 - 74.4%] (13/23)	56.5% [36.3 - 74.8%]	0.0050
			14 dpe AL_Providence	3.1% [0.6 - 15.7%] (1/32)	3.1% [0.4 - 19.1%]	28 dpe AL_Providence	39.6% [27.0 - 53.7%] (19/48)	39.6% [26.9 - 53.9%]	0.0123
		ML dpe	AL_Combani 21 dpe	83.3% [64.2 - 93.3%] (20/24)	83.3% [63.1 - 93.6%]	AL_Providence 21 dpe	22.9% [13.3 - 36.5%] (11/48)	22.9% [13.2 - 36.8%]	0.0003
						AL_Praslin 21 dpe	27.1% [16.6 - 41.0%] (13/48)	27.1% [16.4 - 41.2%]	0.0012
						AL_Moroni 21 dpe	20.8% [11.7 - 34.3%] (10/48)	20.8% [11.6 - 34.6%]	0.0002
						AL_Kaweni 21 dpe	31.3% [18.0 - 48.6%] (10/32)	31.3% [17.7 - 49.0%]	0.0079
						AL_Gilles 21 dpe	29.2% [14.9 - 49.2%] (7/24)	29.2% [14.6 - 49.8%]	0.0101
						AL_Philippe 21 dpe	12.5% [4.3 - 31.0%] (3/24)	12.5% [4.1 - 32.4%]	0.0004
			AL_Gilles 28 dpe	56.5% [36.8 - 74.4%] (13/23)	56.5% [36.3 - 74.8%]	AL_Moroni 28 dpe	14.6% [7.3 - 27.2%] (7/48)	14.6% [7.1 - 27.6%]	0.0097
	TE	dpe	14 dpe	1.1% [0.3 - 4.1%] (2/176)	1.0% [0.2 - 3.9%]	21 dpe	11.9% [8.7 - 16.1%] (35/295)	11.1% [7.9 - 15.4%]	0.0017
			21 dpe	11.9% [8.7 - 16.1%] (35/295)	11.1% [7.9 - 15.4%]	28 dpe	22.6% [18.0 - 28.1%] (60/265)	21.4% [16.0 - 28.0%]	<0.0001
		ML	AL_Beauvallon	19.3% [13.2 - 27.3%] (23/119)	11.5% [6.4 - 19.8%]	AL_Moroni	5.5% [2.7 - 10.9%] (7/128)	2.7% [1.1 - 6.3%]	0.0174

Aedes aegypti	IR	dpe	21 dpe	50.0% [40.2- 59.8%] (48/96)	50.0% [40.1 - 59.9%]	28 dpe	74.4% [63.7- 82.7%] (58/78)	74.4% [63.6 - 82.8%]	0.0036
	DE	dpe	14 dpe	6.3% [2.5- 15.0%] (4/64)	6.3% [2.4 - 15.5%]	21 dpe	34.4% [25.6- 44.3%] (33/96)	34.4% [25.6 - 44.4%]	0.0007
						28 dpe	64.1% [53.0- 73.9%] (50/78)	64.1% [52.9 - 73.9%]	<0.0001
			21 dpe	34.4% [25.6- 44.3%] (33/96)	34.4% [25.6 - 44.4%]				0.0004
	TE	dpe	-	-	-	-	-	-	-
		ML dpe	-	-	-	-	-	-	-
		dpe ML	-	-	-	-	-	-	-