

## Interaction Model: Immune Signatures × Parasite Species

Principal components predicting weight loss by infection group

	Interaction Model
Intercept	4.713***
	(0.918)
PC1 (Inflammatory)	-0.077
	(0.395)
PC2 (Regulatory)	0.347
	(0.542)
E. ferrisi infection	5.258***
	(1.342)
E. falciformis infection	10.025***
	(1.314)
PC1 × E. ferrisi	0.157
	(0.590)
PC1 × E. falciformis	1.194*
	(0.505)
PC2 × E. ferrisi	-2.618***
	(0.774)
PC2 × E. falciformis	-1.185
	(0.755)
Num.Obs.	136

\* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001

Reference group: Uninfected controls

Model assumptions verified (Supplementary Table SX)

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Principal components predicting weight loss by infection group

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	Interaction Model
R2	0.426
R2 Adj.	0.390

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\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

Reference group: Uninfected controls

Model assumptions verified (Supplementary Table SX)

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