

# Linear regression models: Immune signatures predict weight loss

Comparison of three modeling approaches

	Immune Only	Full Model	Interaction
Intercept	9.662*** (0.645)	-1.495 (5.622)	4.713*** (0.918)
PC1 (Inflammatory)	0.514* (0.253)	0.122 (0.236)	-0.077 (0.395)
PC2 (Regulatory)	-1.274*** (0.372)	-0.707* (0.302)	0.347 (0.542)
<i>E. ferrisi</i> infection		-1.399 (1.737)	5.258*** (1.342)
<i>E. falciformis</i> infection		1.378 (1.603)	10.025*** (1.314)
Infection intensity		0.631*** (0.129)	
Initial body weight		0.304* (0.132)	
PC1 × <i>E. ferrisi</i>			0.157 (0.590)
PC1 × <i>E. falciformis</i>			1.194* (0.505)
PC2 × <i>E. ferrisi</i>			-2.618***

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

Reference: Uninfected controls

Mouse strain effects omitted for clarity

All models met regression assumptions (Supplementary Table SX)

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	Immune Only	Full Model	Interaction
			(0.774)
PC2 × <i>E. falciformis</i>			-1.185
			(0.755)
Num.Obs.	136	128	136
R2	0.106	0.631	0.426
R2 Adj.	0.093	0.554	0.390

PC1: inflammatory genes; PC2: regulatory genes

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

Reference: Uninfected controls

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