

Model/Effect	Comparison	n	Effect Size ⁷	SE	p-value	Model R ²	F-test p
Intensity × Status Interaction							
Interaction Model: Main Effect	MC.Eimeria TRUE vs FALSE	185	+5.65%	1.546	<0.001	0.114	<0.001
Interaction Model: Interaction Term	ΔCt × Infection Status	185	+0.50%	0.165	0.003	0.114	<0.001
Species-Specific Effects							
Species Model: <i>E. ferrisi</i>	vs Uninfected	169	+1.25%	0.428	0.004	0.082	<0.001
Species Model: <i>E. falciformis</i>	vs Uninfected	169	+2.06%	0.686	0.003	0.082	<0.001
Infection Detection							
Infection Status Effect	Infected vs Uninfected	305	+1.15%	0.279	<0.001	0.053	<0.001
qPCR Intensity Correlation	Predicted WL vs ΔCt (infected mice)	92	+0.23%	NA	0.025	NA	NA
Oocyst Count Correlation	Predicted WL vs OPG (positive counts)	55	+0.18%	NA	0.183	NA	NA
⁷ Effect size represents increase in predicted weight loss. Interaction term shows how ΔCt effect changes with infection status.							