Table 1: Linear regression models: Immune signatures predict weight loss

Comparison of three modeling approaches

|  | Immune Only | Full Model | Interaction |
| --- | --- | --- | --- |
| Intercept | 9.662\*\*\* | -1.495 | 4.713\*\*\* |
|  | (0.645) | (5.622) | (0.918) |
| PC1 (Inflammatory) | 0.514\* | 0.122 | -0.077 |
|  | (0.253) | (0.236) | (0.395) |
| PC2 (Regulatory) | -1.274\*\*\* | -0.707\* | 0.347 |
|  | (0.372) | (0.302) | (0.542) |
| <i>E. ferrisi</i> infection |  | -1.399 | 5.258\*\*\* |
|  |  | (1.737) | (1.342) |
| <i>E. falciformis</i> infection |  | 1.378 | 10.025\*\*\* |
|  |  | (1.603) | (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\*\*\* |
|  |  |  | (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 | | | |
| Mouse strain effects omitted for clarity | | | |
| All models met regression assumptions (Supplementary Table SX) | | | |