

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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| | | | (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

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