Table 1:

Random Forest laboratory validation statistics

|  | Statistical Results | |  |
| --- | --- | --- | --- |
| Validation Analysis | Estimate/Correlation | P-value | Sample Size |
| Test Set Correlation | 0.787 | 0.00 | 40 |
| *E. ferrisi Effect* | 3.514 | 2.58 × 10^-2 | 40 |
| *E. falciformis Effect* | 6.366 | 5.00 × 10^-4 | 40 |
| Infection Intensity | 0.544 | 3.00 × 10^-4 | 28 |
| Overall Model R² | 0.283 | NA | 40 |
| Test set validation results for random forest model predictions against infection parameters | | | |