Table 1: CXCL9 Single-Gene Model Performance Validation

| Analysis | Metric*1* | Value | p-value | 95% CI | n |
| --- | --- | --- | --- | --- | --- |
| Laboratory full model | R² | 0.128 | < 0.001 | — | 136 |
| Laboratory train-test validation | Pearson r | 0.492 | 0.001 | [0.22, 0.70] | 41 |
| Laboratory train-test validation | RMSE | 6.36 | — | — | 41 |
| Laboratory train-test validation | MAE | 5.29 | — | — | 41 |
| Field cross-population correlation | Pearson r | 0.172 | 0.002 | [0.07, 0.27] | 336 |
| *1*RMSE = Root Mean Squared Error; MAE = Mean Absolute Error | | | | | |