

CXCL9 Single-Gene Model Performance Validation					
Analysis	Metric <sup>1</sup>	Value	p-value	95% CI	n
Laboratory full model	R <sup>2</sup>	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
<sup>1</sup> RMSE = Root Mean Squared Error; MAE = Mean Absolute Error					