

A.

Metric	Performance of best classifiers based on different genomic descriptors						
	Advanced Model (All gene Features)	Basic Model (Sequence + Structural)	Count Model	Expression Model	Epigenetic Model	Other Model	Variomic Model
Accuracy	0.90	0.84	0.83	0.82	0.81	0.78	0.78
Precision	0.92	0.90	0.89	0.88	0.89	0.91	0.82
Recall	0.93	0.88	0.88	0.87	0.85	0.76	0.88
F1	0.93	0.89	0.88	0.88	0.87	0.83	0.85
AUC	0.87	0.82	0.79	0.78	0.78	0.78	0.69
Average Precision- Recall	0.97	0.93	0.90	0.91	0.90	0.91	0.86

Supplementary Figure S16. (A) In Table A, we display the prediction performance of the best performing model trained on distinct or all genomic descriptors (Advanced, Basic, Count, Expression, Epigenetic, Other and Variomic). The table summarizes the models' best scores on the testing dataset for each criterion (accuracy, precision, recall, F1, AUC-ROC, Average Precision-Recall).