

SUPPLEMENTARY TABLES

Supplementary Table 1. Performance of the 5 machine learning classifiers on the test set.

	Model	PPV	NPV	MCC	Model processing time (second)
Test set	LR	76.0%	66.7%	0.43	0.28
	ANN	77.8%	73.7%	0.43	1.80
	SVM	75.9%	76.5%	0.51	0.36
	XGB	82.1%	83.3%	0.64	0.99
	RF	82.8%	88.2%	0.69	0.96

Supplementary Table 2. Parameters for each machine learning method in this study.

Model	Optimal parameters
LR	Penalty: 'l2', C: 0.1
SVM	C: 0.1, gamma: 0.01, kernel: 'rbf'
RF	n estimators: 80, max depth: 8, min samples split: 3, min samples leaf: 1
XGB	n estimators: 80, max depth:3, learning rate:0.1