

Table S2 Prediction performance of 5 different machine learning approaches

		Writers (M3/M14 vs M16)					Erasers (FTO vs ALKBH5)				
		RF	SVM	GLM	NB	DT	RF	SVM	GLM	NB	DT
Dataset 1 (P > 0.6)	Sens	0.804	0.657	0.580	0.738	0.414	0.796	0.818	0.802	0.724	0.668
	Spec	0.795	0.642	0.591	0.379	0.717	0.799	0.816	0.803	0.814	0.766
	ROC	0.889	0.697	0.608	0.597	0.580	0.873	0.884	0.872	0.847	0.884
	ACC	0.800	0.650	0.585	0.558	0.565	0.797	0.817	0.803	0.762	0.706
	MCC	0.599	0.299	0.171	0.124	0.137	0.595	0.633	0.605	0.531	0.423
Dataset 2 (P > 0.7)	Sens	0.799	0.649	0.568	0.706	0.418	0.797	0.816	0.802	0.852	0.693
	Spec	0.805	0.629	0.589	0.403	0.706	0.803	0.815	0.807	0.668	0.752
	ROC	0.888	0.691	0.603	0.589	0.583	0.873	0.885	0.872	0.849	0.885
	ACC	0.802	0.639	0.579	0.554	0.562	0.800	0.816	0.804	0.726	0.720
	MCC	0.605	0.278	0.157	0.114	0.130	0.600	0.632	0.608	0.483	0.443
Dataset 3 (P > 0.8)	Sens	0.833	0.673	0.624	0.870	0.561	0.791	0.815	0.798	0.876	0.676
	Spec	0.809	0.630	0.556	0.198	0.584	0.795	0.818	0.805	0.630	0.769
	ROC	0.911	0.710	0.615	0.601	0.577	0.872	0.884	0.872	0.851	0.884
	ACC	0.821	0.652	0.590	0.534	0.573	0.793	0.816	0.801	0.686	0.716
	MCC	0.643	0.304	0.181	0.092	0.145	0.586	0.633	0.602	0.424	0.440
Dataset 4 (P > 0.9)	Sens	0.799	0.669	0.617	0.880	0.552	0.822	0.821	0.769	0.811	0.671
	Spec	0.779	0.605	0.563	0.179	0.576	0.794	0.831	0.761	0.616	0.703
	ROC	0.877	0.687	0.604	0.595	0.570	0.888	0.899	0.831	0.814	0.899
	ACC	0.789	0.637	0.590	0.530	0.564	0.806	0.826	0.765	0.669	0.686
	MCC	0.578	0.275	0.180	0.083	0.129	0.611	0.652	0.530	0.380	0.373

Note: RF: Random Forest; SVM: Support Vector Machine; GLM: generalized linear model; NB: Naïve Bayes; DT: decision tree.