A Confusion Matrix B ROC Curve for Up–XGB, Full Set Model in Validation Set AUC = 0.932

HGSC	655	0	28	4	0
Prediction Posson Posso Posson Posso Poss	17	69	4	0	1
ENOC	6	0	53	2	1
F LGSC	12	0	0	8	0
MUC	9	0	3	1	21
	HGSC	CCOC	ENOC Truth	LGSC	MUC

C

Metric	Overall	HGSC	ccoc	ENOC	LGSC	MUC
Accuracy	0.902	0.915	0.975	0.951	0.979	0.983
Sensitivity	0.797	0.937	1.000	0.602	0.533	0.913
Specificity	0.954	0.836	0.973	0.989	0.986	0.985
F1-Score	0.742	0.945	0.862	0.707	0.457	0.737
Balanced Accuracy	0.876	0.886	0.987	0.796	0.760	0.949
Карра	0.743	0.756	0.849	0.681	0.447	0.729

