

	N	ACCURACY	SENSITIVITY	SPECIFICITY	PPV	NPV
NSCLC-MSK	233	0.75	0.71	0.85	0.91	0.57
PANCANCER-VHIO	122	0.77	0.79	0.75	0.74	0.80
LUNG	30	0.83	0.93	0.73	0.76	0.92
GASTROINTESTINAL	27	0.68	0.44	0.85	0.67	0.69
SKIN	15	0.60	1.00	0.33	0.50	1.00
GYNECOLOGICAL	10	0.78	0.67	0.83	0.67	0.83
HEAD AND NECK	9	0.88	1.00	0.50	0.86	1.00
BREAST	8	0.88	1.00	0.83	0.67	1.00
URINARY	6	1.00	1.00	1.00	1.00	1.00
HEPATOBIILIARY	5	0.75	0.50	1.00	1.00	0.67
SARCOMA	3	0.67	0.50	1.00	1.00	0.50
OTHER	9	0.71	1.00	0.60	0.50	1.00

Table S1. Model classification performance for the training (NSCLC-MSK) and test (pan-cancer-VHIO) cohorts: Accuracy, Sensitivity, Specificity, Positive Predictive Value (PPV) and Negative Predictive Value (NPV). For the Pan-cancer cohort, the performance for the different tumor types is also reported.