

Cross-validation

Actual class

Predicted class

		All	Biliary	Breast	Cervix	CNS_Glioma	CNS_Medullo	CNS_PiloAstro	Colorectum	Gastric	Gastrointestinal_NET	HeadAndNeck_Other	HeadAndNeck_SG	Kidney_Chromophobe	Kidney_ClearCell	Kidney_Papillary	Liver	Lung_NSC	Lung_SC	Lymphoid	Mesothelium	Myeloid	Ovary	Pancreas	Pancreas_NET	Prostate	Sarcoma_GIST	Sarcoma_Leiomyo	Sarcoma_Lipo	Sarcoma_Other	Skin_Melanoma	Skin_Other	Thyroid	Urothelial	Uterus			
Predicted class	All	0.91																																				
	Biliary		0.45	0	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0.02	0	0	0	0	0.03	0	0.04	0	0	0	0	0	0.01	0	0	0.02	0.01	0.03			
	Breast			0.98	0.04	0	0	0	0	0.01	0	0.01	0.19	0	0	0	0	0.02	0.02	0	0.03	0	0.02	0.01	0.02	0	0	0.04	0	0.01	0.01	0	0.02	0.01	0.03			
	Cervix				0.88	0	0	0	0	0	0.02	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0.02	0			
	CNS_Glioma					0.99	0	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0			
	CNS_Medullo						0.94	0.01	0	0	0	0	0.04	0	0	0	0	0	0	0	0.03	0	0	0	0.02	0	0	0	0	0.01	0	0.03	0	0	0			
	CNS_PiloAstro							0.93	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Colorectum								0.97	0.06	0.08	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0			
	Gastric									0.85	0.04	0	0.04	0.03	0	0	0	0.01	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0.01	0.01		
	Gastrointestinal_NET										0.71	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.07	0	0	0	0	0.01	0	0	0	0	0			
	HeadAndNeck_Other											0.7	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0	0.02	0			
	HeadAndNeck_SG												0.46	0	0	0	0	0	0	0	0.03	0	0	0	0.01	0	0	0	0	0.01	0	0.03	0	0	0			
	Kidney_Chromophobe													0.77	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0			
	Kidney_ClearCell														0.94	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0.02	0			
	Kidney_Papillary															0.01	0.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Liver																	0.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Lung_NSC																		0.92	0.41	0	0	0	0	0	0	0	0.02	0	0	0.01	0	0	0.02	0			
	Lung_SC																			0.01	0.53	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0			
	Lymphoid																				0.98	0	0.06	0	0	0	0	0	0	0	0	0.01	0	0	0			
	Mesothelium																					0.78	0	0	0	0	0.02	0	0	0	0	0	0	0	0			
	Myeloid																						0.77	0	0	0	0	0	0	0	0.01	0	0	0.03	0			
	Ovary																							0.91	0	0	0	0	0	0	0.02	0	0	0.02	0	0.08		
	Pancreas																								0.92	0.04	0	0	0	0	0	0	0	0	0.01	0		
	Pancreas_NET																									0.77	0	0	0	0.03	0.01	0	0	0	0.02	0		
	Prostate																										0.99	0	0	0	0	0	0	0.03	0.02	0		
	Sarcoma_GIST																											0.9	0.04	0	0	0	0	0	0.02	0		
	Sarcoma_Leiomyo																												0.02	0.5	0.07	0.04	0	0	0.02	0		
	Sarcoma_Lipo																													0.02	0.8	0.04	0	0	0	0		
	Sarcoma_Other																														0.1	0.76	0	0.03	0.03	0.01	0.01	
	Skin_Melanoma																															0.02	0.98	0.03	0	0		
	Skin_Other																																0	0.76	0	0		
	Thyroid																																	0	0.74	0	0	
	Urothelial																																		0.03	0.03	0.9	0.04
	Uterus																																			0.01	0.79	
Top-1 correct		Frac.	0.91	0.45	0.98	0.88	0.99	0.94	0.93	0.97	0.85	0.71	0.7	0.46	0.77	0.94	0.48	0.97	0.92	0.53	0.98	0.78	0.77	0.91	0.92	0.77	0.99	0.9	0.5	0.8	0.76	0.98	0.76	0.74	0.9	0.79		
		No.	5571	47	899	50	117	115	65	609	259	36	59	12	30	202	14	307	492	27	193	25	24	232	265	82	521	56	28	32	126	363	22	45	159	58		
Top-2 correct		Frac.	0.95	0.72	0.99	0.93	1	0.97	0.97	0.98	0.92	0.78	0.87	0.65	0.79	0.97	0.86	0.98	0.95	0.88	0.99	0.81	0.87	0.97	0.96	0.85	0.99	0.92	0.86	0.88	0.9	0.99	0.83	0.77	0.93	0.89		
		No.	5836	75	911	53	118	118	68	616	281	40	73	17	31	208	25	310	507	45	195	26	27	246	277	91	521	57	48	35	149	367	24	47	165	65		
Total no. of samples		6139	104	922	57	118	122	70	630	305	51	84	26	39	214	29	317	532	51	197	32	31	254	289	107	525	62	56	40	166	369	29	61	177	73			
		All	Biliary	Breast	Cervix	CNS_Glioma	CNS_Medullo	CNS_PiloAstro	Colorectum	Gastric	Gastrointestinal_NET	HeadAndNeck_Other	HeadAndNeck_SG	Kidney_Chromophobe	Kidney_ClearCell	Kidney_Papillary	Liver	Lung_NSC	Lung_SC	Lymphoid	Mesothelium	Myeloid	Ovary	Pancreas	Pancreas_NET	Prostate	Sarcoma_GIST	Sarcoma_Leiomyo	Sarcoma_Lipo	Sarcoma_Other	Skin_Melanoma	Skin_Other	Thyroid	Urothelial	Uterus			

Holdout

Actual class

		All	Biliary	Breast	Cervix	CNS_Glioma	CNS_Medullo	CNS_PiloAstro	Colorectum	Gastric	Gastrointestinal_NET	HeadAndNeck_Other	HeadAndNeck_SG	Kidney_Chromophobe	Kidney_ClearCell	Kidney_Papillary	Liver	Lung_NSC	Lung_SC	Lymphoid	Mesothelium	Myeloid	Ovary	Pancreas	Pancreas_NET	Prostate	Sarcoma_GIST	Sarcoma_Leiomyo	Sarcoma_Lipo	Sarcoma_Other	Skin_Melanoma	Skin_Other	Thyroid	Urothelial	Uterus	
Top-1 correct	Frac.	0.88	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	No.	602	3	98	5	13	11	8	69	27	8	6	2	4	23	31	53	6	20	4	2	20	29	8	55	9	3	3	12	39	2	2	19	7		
	Total no. of samples	681	12	100	6	13	14	8	69	34	9	9	5	4	23	3	34	59	7	21	7	3	28	32	12	55	9	7	4	18	39	3	6	20	8	
	Top-2 correct	Frac.	0.93	0.58	1	0.83	1	0.86	1	1	0.94	0.89	0.89	0.4	1	1	1	0.91	0.97	1	0.95	0.57	0.67	0.79	0.94	0.75	1	1	0.86	1	0.83	1	1	0.5	0.95	0.88
		No.	636	7	100	5	13	12	8	69	32	8	8	2	4	23	3	31	57	7	20	4	2	22	30	9	55	9	6	4	15	39	3	3	19	7
		Total no. of samples	681	12	100	6	13	14	8	69	34	9	9	5	4	23	3	34	59	7	21	7	3	28	32	12	55	9	7	4	18	39	3	6	20	8