	OVERALL	Biliary	Breast	Cervix	CNS_Glioma	CNS_Medullo	CNS_PiloAstro	Colorectum	Colorectum_NET	Gastric	HeadAndNeck_ACC	HeadAndNeck_Other	Kidney	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
Incorrect	653	59	29	9	4	20	13	25	22	52	14	24	25	15	38	28	6	10	7	24	21	32	9	8	23	8	62	6	8	21	20	11
Correct	5485	44	893	49	115	102	57	609	23	252	12	61	257	304	495	23	190	22	24	231	270	74	514	53	33	32	105	362	21	39	157	62
Total	6138	103	922	58	119	122	70	634	45	304	26	85	282	319	533	51	196	32	31	255	291	106	523	61	56	40	167	368	29	60	177	73

Predicted class (rows) × Actual class (columns)

Predicted \ Actual	OVERALL	Biliary	Breast	Cervix	CNS_Glioma	CNS_Medullo	CNS_PiloAstro	Colorectum	Colorectum_NET	Gastric	HeadAndNeck_ACC	HeadAndNeck_Other	Kidney	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
OVERALL	0.89																															
Biliary		0.43	0	0	0	0	0	0	0	0.02	0.04	0	0	0.02	0	0	0	0	0.03	0	0.03	0	0	0	0	0	0.01	0	0	0	0.01	0.03
Breast		0.05	0.97	0.02	0	0	0	0	0	0.01	0.12	0.01	0.01	0	0.01	0	0	0	0	0.01	0	0	0	0.02	0.02	0	0.02	0.01	0	0	0.02	0.03
Cervix		0	0	0.84	0	0	0	0	0	0	0.04	0.09	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0.02	0
CNS_Glioma		0	0	0	0.97	0	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0.02	0	0.01	0	0	0	0	0
CNS_Medullo		0.01	0	0	0	0.84	0.06	0	0.04	0	0	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0.02	0	0	0.02	0	0.07	0	0	0
CNS_PiloAstro		0	0	0	0.01	0.03	0.81	0	0.02	0	0	0.01	0	0	0	0	0	0.06	0	0	0	0	0	0.03	0	0.02	0	0	0	0.02	0	0
Colorectum		0.01	0	0.01	0	0	0	0.96	0.04	0.04	0	0	0	0	0	0	0	0	0	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0.03	0.01
Colorectum_NET		0.01	0	0	0	0	0	0	0.51	0	0	0.01	0.01	0	0	0	0	0	0	0	0.03	0	0	0	0.05	0	0	0	0	0.02	0	0
Gastric		0.07	0	0	0	0	0	0.01	0.02	0.83	0.04	0	0	0	0	0	0.01	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0	0
HeadAndNeck_ACC		0	0	0	0	0	0.01	0	0	0	0.46	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0
HeadAndNeck_Other		0.01	0	0.07	0	0	0	0.01	0	0.04	0.04	0.72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	0.02	0
Kidney		0.02	0	0	0	0.02	0	0	0.04	0	0	0	0.91	0.01	0	0.02	0.01	0.03	0	0	0	0	0	0	0	0	0.03	0	0	0.1	0	0
Liver		0.07	0	0	0	0	0	0	0	0	0	0	0	0.95	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0.02	0	0
Lung_NSC		0.02	0	0	0	0	0	0	0	0	0	0.04	0.01	0	0.93	0.49	0	0.03	0	0	0	0	0	0	0	0	0.01	0.01	0	0.05	0.01	0
Lung_SC		0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lymphoid		0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.97	0.03	0.03	0	0	0.01	0	0	0	0	0	0	0	0	0	0
Mesothelium		0	0	0	0	0.02	0.03	0	0	0	0	0	0	0	0	0	0.01	0.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myeloid		0	0	0	0	0.02	0	0	0.02	0	0	0	0	0	0	0	0	0	0.77	0	0	0	0	0	0.02	0	0	0	0	0.02	0	0
Ovary		0	0.01	0.02	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0.03	0	0.91	0	0	0	0	0	0	0.02	0	0	0	0	0.05
Pancreas		0.28	0	0	0	0	0	0	0.04	0.04	0	0.01	0	0.01	0.01	0	0	0	0	0	0.93	0.04	0	0	0	0	0	0	0	0	0.01	0
Pancreas_NET		0	0	0	0	0.03	0	0	0.18	0	0	0	0.01	0	0	0.04	0	0.03	0.03	0	0	0.7	0	0.02	0	0	0	0	0	0.03	0	0
Prostate		0	0	0	0	0	0	0	0	0.01	0.12	0	0	0	0	0	0	0	0	0	0	0.03	0.98	0.02	0	0	0.01	0	0.03	0.03	0	0
Sarcoma_GIST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0.87	0.05	0	0.02	0	0	0	0	0.01
Sarcoma_Leiomyo		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.59	0.03	0.05	0	0	0	0	0
Sarcoma_Lipo		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0.02	0.8	0.05	0	0	0	0	0
Sarcoma_Other		0.01	0	0.02	0.01	0.01	0.01	0	0.02	0	0.12	0	0.01	0	0.01	0	0	0.09	0	0	0	0.04	0	0.03	0.27	0.17	0.63	0	0	0.02	0.01	0
Skin_Melanoma		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0.02	0	0.02	0.98	0.07	0	0	0
Skin_Other		0	0	0	0	0	0	0	0	0	0.04	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.72	0	0	0
Thyroid		0.01	0	0	0	0.01	0.01	0	0.04	0	0	0	0	0	0	0	0.01	0	0	0	0	0.01	0	0	0.02	0	0	0	0	0.65	0	0
Urothelial		0	0	0.02	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0	0.89	0.01
Uterus		0	0	0.02	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0.01	0	0	0.02	0	0.01	0	0	0	0.01	0.85

Predicted class

Actual class

Holdout

	OVERALL	Biliary	Breast	Cervix	CNS_Glioma	CNS_Medullo	CNS_PiloAstro	Colorectum	Colorectum_NET	Gastric	HeadAndNeck_ACC	HeadAndNeck_Other	Kidney	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
Incorrect	85	6	2	1	0	3	0	1	4	10	4	3	1	4	6	3	0	1	2	8	7	4	0	1	2	0	4	1	0	5	1	1
Correct	595	5	98	4	12	11	8	67	4	24	1	6	30	30	52	4	22	6	1	20	25	8	57	8	5	4	13	39	3	2	19	7
Total	680	11	100	5	12	14	8	68	8	34	5	9	31	34	58	7	22	7	3	28	32	12	57	9	7	4	17	40	3	7	20	8

Predicted class (rows) × Actual class (columns)

Predicted \ Actual	OVERALL	Biliary	Breast	Cervix	CNS_Glioma	CNS_Medullo	CNS_PiloAstro	Colorectum	Colorectum_NET	Gastric	HeadAndNeck_ACC	HeadAndNeck_Other	Kidney	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
OVERALL	0.88																															
Biliary		0.45	0	0	0	0	0	0	0	0.06	0.2	0	0	0.03	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0.03	0	0	0	0
Breast		0	0.98	0	0	0.07	0	0	0	0	0.2	0	0	0.03	0.02	0	0	0	0	0.11	0.03	0	0	0	0	0	0	0	0	0	0	0
Cervix		0	0.01	0.8	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	0	0	0
CNS_Glioma		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CNS_Medullo		0	0	0	0	0.79	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CNS_PiloAstro		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Colorectum		0	0	0	0	0	0	0.99	0	0.12	0	0.11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Colorectum_NET		0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0	0	0	0
Gastric		0.09	0	0	0	0	0	0	0	0.71	0	0	0	0	0	0	0	0	0	0	0.09	0	0	0	0	0	0	0	0	0	0	0
HeadAndNeck_ACC		0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HeadAndNeck_Other		0	0	0	0	0	0	0	0.12	0.09	0	0.67	0	0	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kidney		0	0	0	0	0	0	0	0	0	0.2	0	0.97	0.03	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Liver		0.09	0	0	0	0	0	0	0	0	0	0	0	0.88	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lung_NSC		0	0	0	0	0	0	0	0	0	0	0.11	0	0	0.9	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0.14	0.05	0
Lung_SC		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lymphoid		0	0	0	0	0.07	0	0	0	0	0	0	0	0	0	0	1	0	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0
Mesothelium		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myeloid		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0
Ovary		0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.33	0.71	0.03	0	0	0	0	0	0	0	0	0.14	0	0
Pancreas		0.36	0	0	0	0	0	0.01	0	0	0	0	0	0.03	0.02	0	0	0	0	0	0.78	0	0	0	0	0	0	0	0	0	0	0
Pancreas_NET		0	0	0	0	0.07	0	0	0.12	0	0	0	0	0	0	0	0	0	0	0	0.03	0.67	0	0	0	0	0	0	0	0	0	0
Prostate		0	0	0	0	0	0	0	0	0	0	0.11	0	0	0	0	0	0	0	0	0	0	1	0.11	0	0	0	0	0	0	0	0
Sarcoma_GIST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.89	0.14	0	0.06	0	0	0	0	0
Sarcoma_Leiomyo		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.71	0	0.06	0	0	0	0	0
Sarcoma_Lipo		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Sarcoma_Other		0	0	0	0	0	0	0	0	0	0	0	0	0	0.14	0	0.07	0	0	0	0	0.08	0	0	0.14	0	0.76	0	0	0.29	0	0.12
Skin_Melanoma		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.98	0	0	0	0
Skin_Other		0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Thyroid		0	0	0	0	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0	0	0.17	0	0	0	0	0.06	0	0	0.29	0	0
Urothelial		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.14	0.95	0
Uterus		0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0	0	0	0	0	0	0	0	0	0	0	0.88