

Filename	Source	Size in px	GT TCP in %	TCP AI prediction in %	AI-Pred: total cell count	AI-Pred: tumor cell count	AI-Pred: non tumor cell count	Case coverage of real-life TCP evaluation scenarios
Training images								
0.png	BreastPathQ	710x466	49	53	137	72	65	Artifacts
1.png	TCF	1200x1199	39	57	1382	780	602	Necrosis
2.png	BreCaHad	1360x1024	84	87	255	222	33	High TCP
Experiment images								
Imageset 1								
10.png	BreastPathQ	627x410	30	22	91	20	71	Low TCP and low cell coverage
11.png	TCF	1200x1201	44	50	1381	690	691	Low cell coverage
12.png	TCF	1200x1200	63	40	1633	661	972	Prominent tumor area and clustering, but moderate TCP
13.png	TCF	1200x1201	72	76	1482	1129	353	Overstaining
14.png	BreastPathQ	674x465	19	70	142	100	42	Low TCP and overstaining/clustering
15.png	BreastPathQ	553x410	15	64	80	51	29	LowTCP and low cell coverage
16.png	BreastPathQ	677x463	61	37	106	39	67	Prominent tumor area, but moderate TCP
17.png	BreastPathQ	712x470	88	90	97	87	10	Light staining intensity and high TCP
18.png	BreCaHad	1360x1024	86	90	358	297	61	High TCP
19.png	BreCaHad	1360x1024	90	91	308	279	29	High TCP
Imageset 2								
20.png	TCF	1200x1200	28	27	1449	384	1065	Low TCP and low cell coverage
21.png	TCF	1200x1201	49	28	1480	416	1064	Light staining intensity
22.png	BreastPathQ	701x466	60	56	121	68	53	Artifacts
23.png	TCF	1200x1200	71	59	1448	860	588	Overstaining (unintended background coloration)
24.png	BreastPathQ	575x402	14	95	141	134	7	Low TCP and overstaining/clustering
25.png	BreastPathQ	681x457	11	20	86	17	69	Low TCP and low cell coverage
26.png	BreastPathQ	691x454	55	61	92	56	36	Prominent tumor area, but moderate TCP
27.png	TCF	1200x1200	22	30	1513	449	1064	Light staining intensity and low TCP\
28.png	BreCaHad	1360x1024	82	83	355	320	35	High TCP
29.png	BreCaHad	1360x1024	91	86	283	244	39	High TCP

Study material: additional image patch information.

*TCF: dataset from Frei et al.'s publication on tumor cell fraction scoring. DOI: 10.1016/j.modpat.2023.100335