

Supplemental Material

Supplemental Table S1. Patch distribution per fold and class in the transformer network.

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	No Tumor	Low Grade	High Grade	Background	Discarded
Fold 1	10507	13870	3751	11056	31908
Fold 2	9704	13990	3006	11538	33414
Fold 3	10459	14844	4763	7795	33203

Supplemental Table S2. Results for the extended CRC dataset while integrating the transformer networks.

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Model	Average (%) (Binary)	Weighted (%) (Binary)	Average (%) (3-classes)	Weighted (%) (3-classes)
T+D121	98.33±1.25	98.17±1.30	88.91±3.81	86.37±4.12
T+EffB1	99.67±0.47	99.72±0.39	89.58±4.17	87.50±3.54
T+EffB2	98.66±0.95	98.74±0.91	89.92±2.50	87.22±2.08
T+EffB3	98.66±0.95	98.89±0.70	88.25±2.55	84.44±1.42
T+EffB4	97.65±0.95	98.06±0.79	88.92±3.62	84.72±3.36
T+EffB5	98.32±1.72	98.46±1.37	89.91±5.42	88.05±5.67
T+EffB7	97.66±1.24	97.91±0.89	88.59±1.30	84.44±0.38
T+6.4GF	94.30±2.07	94.57±1.75	85.89±3.64	81.94±5.11
T+16GF	97.66±1.88	97.62±1.56	88.57±3.93	85.54±3.76
T+Res152	94.64±2.04	94.82±1.38	85.57±1.31	81.36±0.76
T+SER50	95.31±1.24	95.52±0.83	85.22±3.37	79.70±6.3