

Supplementary Material

Reconstruction-assisted Feature Encoding Network for Histologic Subtype Classification of Non-small Cell Lung Cancer

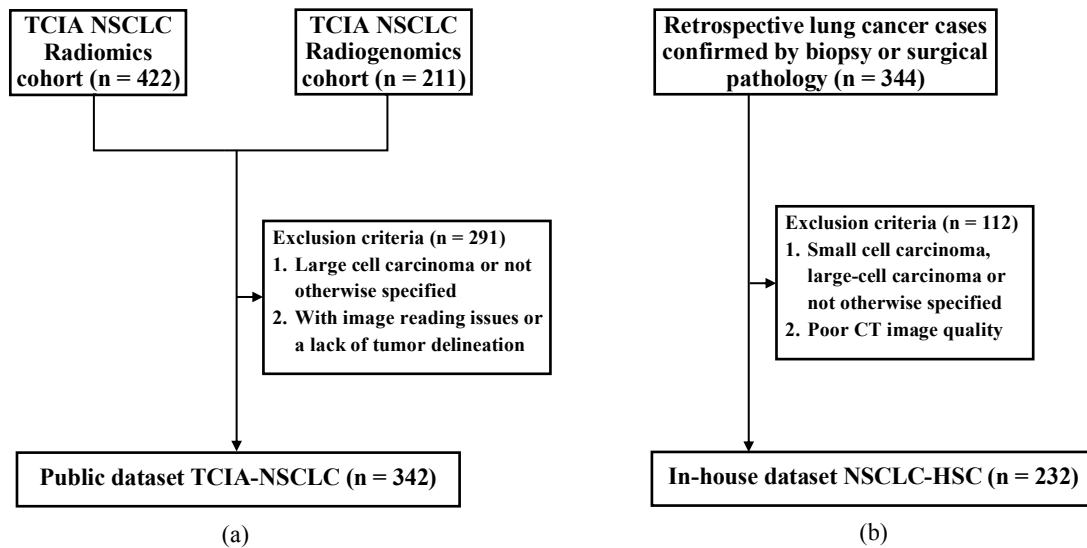


Fig. S1. Flowchart of patient exclusion criteria on (a) TCIA-NSCLC and (b) NSCLC-HSC datasets

TABLE SI
COMPARISON RESULTS OF RAFENET WITH DIFFERENT AGGREGATION METHODS ON TCIA-NSCLC AND NSCLC-HSC
DATASETS USING 5-FOLD CROSS VALIDATION.

Datasets	TCIA-NSCLC				NSCLC-HSC			
Methods	AUC	Acc	Sen	Spe	AUC	Acc	Sen	Spe
RAFENet (Maj.)	0.794±0.026	0.766±0.029	0.825±0.021	0.698±0.057	0.841±0.027	0.811±0.028	0.859±0.044	0.737±0.041
RAFENet (Ave.)	0.797±0.027	0.772±0.031	0.833±0.019	0.709±0.043	0.844±0.024	0.815±0.029	0.866±0.042	0.742±0.033

Note. Abbreviations: Maj. represents majority voting and Ave. represents averaging prediction scores.

TABLE SII
COMPARISON RESULTS OF RAFENET WITH DIFFERENT SETTINGS OF CROSS-LEVEL NON-LOCAL BLOCK ON TCIA-NSCLC
AND NSCLC-HSC DATASETS USING 5-FOLD CROSS VALIDATION.

Datasets	TCIA-NSCLC				NSCLC-HSC			
Methods	AUC	Acc	Sen	Spe	AUC	Acc	Sen	Spe
RAFENet (Alt.)	0.791±0.029	0.761±0.029	0.817±0.028	0.698±0.057	0.835±0.027	0.807±0.025	0.859±0.044	0.731±0.036
RAFENet (Ours)	0.797±0.027	0.772±0.031	0.833±0.019	0.709±0.043	0.844±0.024	0.815±0.029	0.866±0.042	0.742±0.033

Note. Abbreviations: Ours represents the adopted setting using F_{l-1}^t as query features and F_l^g as key and value features, and Alt. represents alternative setting using F_l^g as query features and F_{l-1}^t as key and value features