

iRNA-PseTNC: identification of RNA 5-
methylcytosine sites using hybrid vector
space of pseudo nucleotide composition

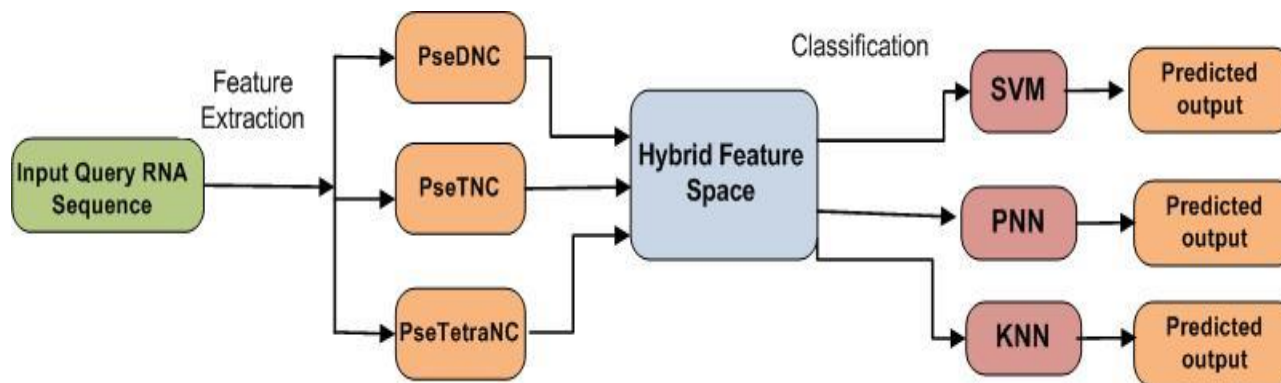
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Problems & Ideas

- RNA 5-methylcytosine (m^5C) sites perform a major role in numerous biological processes and commonly reported in both DNA and RNA cellular. Looking at the significance of m^5C role in RNA, scientists have diverted their attention from experimental methods .
- Experimental methods are :
 - hard , erroneous and time consuming
 - partial availability of recognized structures.

Ideas: sequence-based prediction



Main Contributions

Performance comparison of our proposed model with existing Methods

Predictors	Acc(%)	Sen(%)	Spe(%)	MCC
Feng et al [3]	90.42	85.00	95.83	0.81
Zhang et al [16]	92.92	90.83	95.00	0.86
iRNA-PseTNC	93.42	90	96.67	0.87

Performance comparison of iRNA-PseTNC with existing Methods using independent datasets

