PEA-m6A User Manual (version 1.0)

- PEA-m6A is an ensemble learning framework for predicting m6A modifications at regional-scale.
- PEA-m6A consists of four modules:Sample Preparation, Feature Encoding, Model Development and Model Assessment, each of which contains a comprehensive collection of functions with prespecified parameters available.
- PEA-m6A was powered with an advanced packaging technology, which enables compatibility and portability.
- PEA-m6A project is hosted on http://github.com/cma2015/PEA-m6A
- PEA-m6A docker image is available at http://hub.docker.com/r/malab/peam6a
- PEA-m6A server can be accessed via http://peam6a.omstudio.cloud

PEA-m6A Model Development

This module contains the **Prediction System Construction** used to construct an RNA modification predictor at region-scale and provides predictive function among 12 plant species.

Functions	Description	Input	Output	Reference
Prediction System Constrction	construct an RNA modification predictor at region-scale and provides predictive function among 12 plant species.	Positive feature matrix and negative feature matrix	A predictor and model evaluation results	In-house scripts

Prediction System Constrction

This function contains the **Prediction System Construction** used to construct an RNA modification predictor at region-scale and provides predictive function among 12 plant species.

Input

- Feature matrix of positive samples
- Feature matrix of negative samples

Output

• An RNA modification predictor in binary format

