Package: WDFSMF

Type: Package

Title: Prediction of RNA-binding protein and alternative splicing event associations during epithelial-mesenchymal transition based on weighted data fusion with sparse matrix tri-factorization

Version: 1.0

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Description: This package implements the WDFSMF algorithm with a matrix tri-factorization framework, which integrates the adaptive weights and sparseness constraint to predict novel lncRNA-disease associations.

Depends:

MATLAB (>= 2012a)

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To operate:

\* for the example of DFSMTF:

we have provided some pre-data for DFSMTF, if you want to run DFSMTF framwork, please run the script "WDFSMF\_Init " directly.

\*\* All data loading processes are included in script "WDFSMF\_Init

Files:

WDFSMF\_Init.m: The entry to the WDFSMF framework, for randomly generated data and doing preprocessing.

WDFSMF\_Demo.m: The main function for the algorithm.

lernVector2.m: Init the basis matrix factor G with SVD

- If you have any problem, please contact Yushan Qiu (yushan.qiu@szu.edu.cn) and Quan Zou (zouquan@nclab.net)!