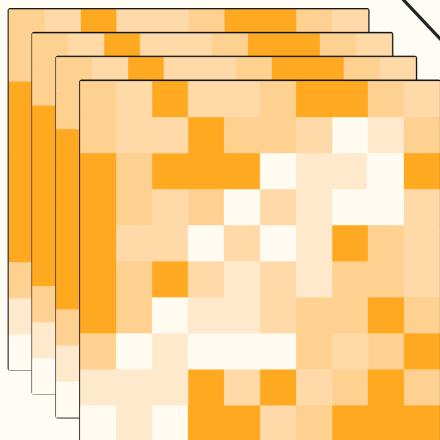


Training

TransNEO ($n = 94$)

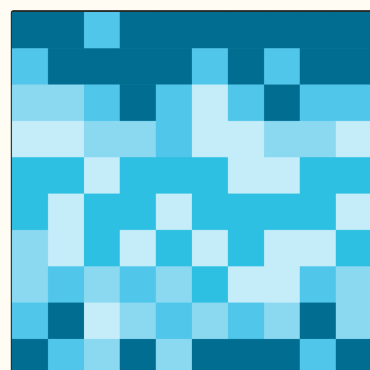
Bulk Expression

Tumor types



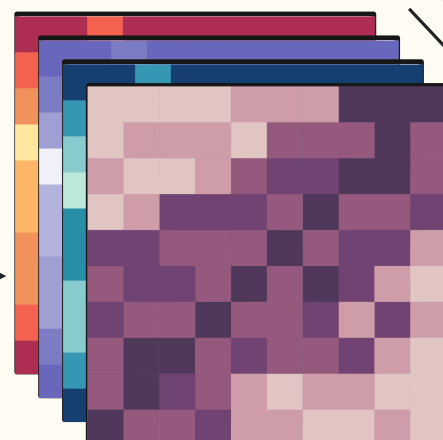
+

Molecular Signature



Cell-type-specific Expression

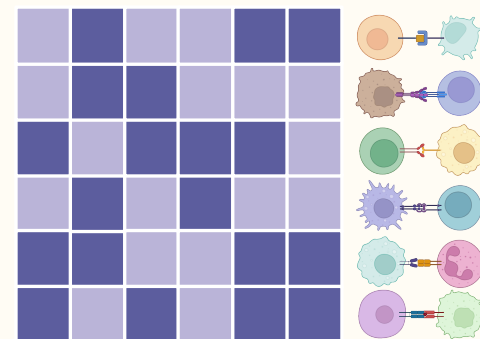
Cell types



CODEFACS

LIRICS

Cell-cell Interactions



1 Likely to occur
0 Unlikely to occur

OR

Machine Learning Pipeline

Prefiltering

Low-variance filtering

Feature selection ($m \leq M$)

Classifier training

Validation

ARTemis + PBCP ($n = 55$)

BrighTNess ($n = 106$)

Zhang SC cohort ($n = 15$)



Predictor

Sensitivity

AUC

1 - Specificity

Chemotherapy Response Prediction