

PROBLEMS

WORKING WITH
UNSTUDIED
PROTEOMES

SELECTION OF
PAIRS FOR
LABORATORY STUDY

SEQUENCE
RELATIONSHIPS
BETWEEN SPECIES

SEARCH FOR
ESSENTIAL/KEY
GENES

INPUTS

RNAs AND PROTEINS
DICTIONARY

KNOWN
INTERACTIONS
TABLE

TARGET
INTERACTIONS

OUTPUTS

TRAINED MODEL

INTERPRETABILITY
AND USABILITY
REPORTS

COMPLEX NETWORK
OF INTERACTIONS

TARGET
INTERACTIONS
PREDICTED

AUTOMATED MACHINE LEARNING

FEATURE
ENGINEERING

TECHNIQUES FOR
IMBALANCED DATA

HYPERPARAMETER
TUNING

MODEL VALIDATION

