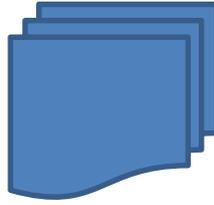


Lilly Rat miRNAs Atlas Processing Workflow



miRNA-Seq data
for tissues/organs

Preprocess Data

Trimming adaptors
Quality filtering
Elimination of short reads

miRDeep Alignment

miRBase v20

Filter mature miRs

Count > 10 in at least
one tissue/organ

Non-negative Matrix
Factorization

Rank = 14
of runs = 20

Extract & normalize basis and coefficient matrix

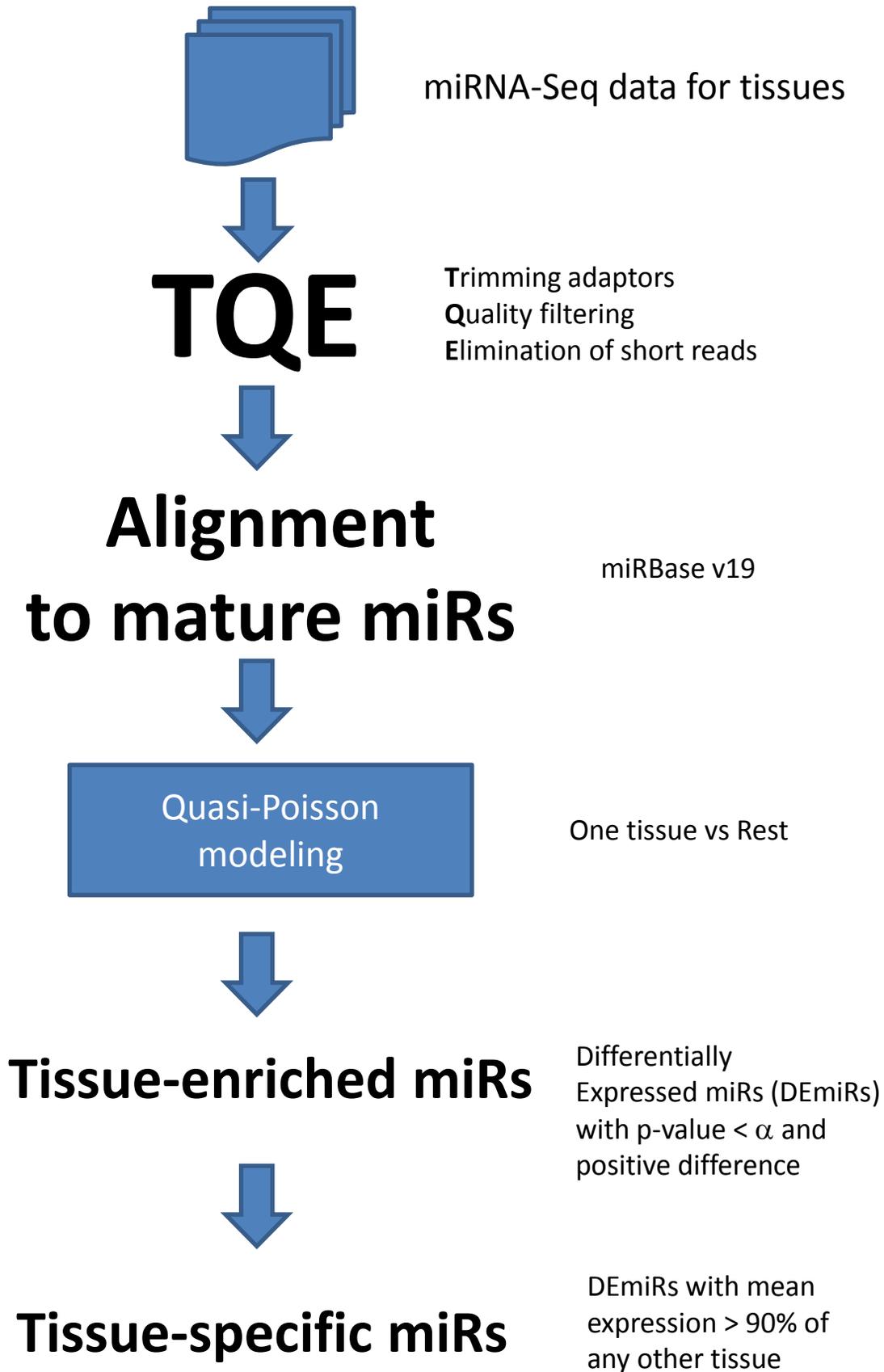
Thresholding

One tissue vs others

Tissue-specific miRs

% > 80

NIEHS Rat miRNAs Atlas Processing Workflow



Maastricht Rat miRNAs Atlas Processing Workflow

