## com.tophat

DATADIR=/home/guest/project4/gencommand\_proj4/ WORKDIR=/home/guest/project4/gencommand\_proj4/Tophat/ BWT2IDX=/home/guest/project4/gencommand\_proj4/athal/athal

mkdir -p \$WORKDIR/Day8

tophat -o \$WORKDIR/Day8 -p 10 \
\$BWT2IDX \
\$DATADIR/Day8.fastq

mkdir -p \$WORKDIR/Day16

tophat -o \$WORKDIR/Day16 -p 10 \
\$BWT2IDX \
\$DATADIR/Day16.fastq

#### com.cufflinks

THDIR=/home/guest/project4/gencommand\_proj4/Tophat/WORKDIR=/home/guest/project4/gencommand\_proj4/Cufflinks

mkdir -p \$WORKDIR/Day8 cd \$WORKDIR/Day8; cufflinks -p 8 \$THDIR/Day8/accepted\_hits.bam

mkdir -p \$WORKDIR/Day16 cd \$WORKDIR/Day16; cufflinks -p 8 \$THDIR/Day16/accepted hits.bam

### com.cuffcompare

DATADIR=/home/guest/project4/gencommand\_proj4/Cufflinks/ REFDIR=/home/guest/project4/gencommand\_proj4/ WORKDIR=/home/guest/project4/gencommand\_proj4/Cuffcompare/

mkdir -p \$WORKDIR/Day8

cuffcompare -r \$REFDIR/athal\_genes.gtf \
-R \$DATADIR/Day8/transcripts.gtf \
-o \$WORKDIR/Day8

mkdir -p \$WORKDIR/Day16

cuffcompare -r \$REFDIR/athal\_genes.gtf \
 -R \$DATADIR/Day16/transcripts.gtf \

# -o \$WORKDIR/Day16

### GTFs.txt

/home/guest/project4/gencommand\_proj4/Cufflinks/Day8/transcripts.gtf /home/guest/project4/gencommand\_proj4/Cufflinks/Day16/transcripts.gtf

### com.cuffdff

WORKDIR=/home/guest/project4/gencommand\_proj4
THDIR=/home/guest/project4/gencommand\_proj4/Tophat
ANNOT=/home/guest/project4/gencommand\_proj4/athal\_genes.gtf

cuffmerge -g \$ANNOT -p 8 -o \$WORKDIR/Cuffmerge \$WORKDIR/Cuffmerge/GTFs.txt

cuffdiff -o \$WORKDIR/Cuffdiff -p 10 \$WORKDIR/Cuffmerge/merged.gtf \ \$THDIR/Day8/accepted\_hits.bam \$THDIR/Day16/accepted\_hits.bam