

Go-Docker: a blast example

Avec image `simonalpha/ncbi-blast-docker`

Sans montage

```
#!/bin/bash

# get the genome reference
curl -o Danio_rerio_genes_Zv9.fasta
https://data-access.cesgo.org/index.php/s/1PRhWEtSK9v9wHD/download --insecure

# get the sequence to blast
curl -o sequences_COI.fasta
https://data-access.cesgo.org/index.php/s/KdY6BCuC1KtvfBX/download --insecure

# create blastdb
mkdir blastdb
makeblastdb -in Danio_rerio_genes_Zv9.fasta -parse_seqids -
dbtype nucl -out blastdb/zv9 -title "Zv9"

#run blast
blastn -query sequences_COI.fasta -task megablast -db
blastdb/zv9 -outfmt 7 -out megablast.out
```

Avec montage home dir

```
#!/bin/bash

mkdir $GODOCKER_HOME/blast_test/

# get the genome reference
curl -o $GODOCKER_HOME/blast_test/Danio_rerio_genes_Zv9.fasta
https://data-access.cesgo.org/index.php/s/1PRhWEtSK9v9wHD/download --insecure

# get the sequence to blast
```

```
curl -o $GODOCKER_HOME/blast_test/sequences_COI.fasta  
https://data-access.cesgo.org/index.php/s/KdY6BCuC1KtvfBX/down  
load --insecure  
  
# create blastdb  
  
mkdir $GODOCKER_HOME/blast_test/blastdb  
  
makeblastdb -in  
$GODOCKER_HOME/blast_test/Danio rerio genes_Zv9.fasta -  
parse_seqids -dbtype nucl -out  
$GODOCKER_HOME/blast_test/blastdb/zv9 -title "Zv9"  
  
#run blast  
  
blastn -query $GODOCKER_HOME/blast_test/sequences_COI.fasta -  
task megablast -db $GODOCKER_HOME/blast_test/blastdb/zv9 -  
outfmt 7 -out $GODOCKER_HOME/blast_test/megablast.out
```