Mac version

Using ReadLine,Boost,HDF5,GSL mothur v.1.47.0 Last updated: 1/21/22 by Patrick D. Schloss

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http://www.mothur.org

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Type 'help()' for information on the commands that are available

For questions and analysis support, please visit our forum at https://forum.mothur.org

Type 'quit()' to exit program

[NOTE]: Setting random seed to 19760620.

Interactive Mode

mothur > make.contigs(file=stability.files)

Using 8 processors.

>>>> Processing file pair F3D0_S188_L001_R1_001.fastq - F3D0_S188_L001_R2_001.fastq (files 1 of 1) <<<< Making contigs...
Done.

It took 2 secs to assemble 7793 reads.

Group count: F3D0 7793

Total of all groups is 7793

It took 2 secs to process 7793 sequences.

Output File Names:

stability.trim.contigs.fasta

stability.scrap.contigs.fasta

stability.contigs_report

stability.contigs.count table

mothur > summary.seqs(fasta=stability.trim.contigs.fasta)

Using 8 processors.

	Start	End	NBases	Ambigs	Polymer	NumSeqs
Minimum: 1	249	249	0	3	1	
2.5%-tile:	1	252	252	0	4	195
25%-tile:	1	252	252	0	4	1949
Median: 1	252	252	0	4	3897	
75%-tile:	1	253	253	0	5	5845
97 . 5%-tile:	1	253	253	5	6	7599
Maximum: 1	502	502	241	188	7793	
Mean: 1	252	252	0	4		
# of Seqs:	7793					

It took 0 secs to summarize 7793 sequences.

Output File Names:

stability.trim.contigs.summary

mothur > screen.seqs(fasta=stability.trim.contigs.fasta, maxambig=0,
maxlength=275)

Using 8 processors.

It took 0 secs to screen 7793 sequences, removed 1155.

Output File Names:

stability.trim.contigs.good.fasta
stability.trim.contigs.bad.accnos

It took 0 secs to screen 7793 sequences.

Output File Names:

stability.trim.contigs.good.unique.fasta

```
mothur > count.segs(name=stability.trim.contigs.good.names)
Unable to open stability.trim.contigs.good.names. Ipying MOTHUR FILES
directory mothur/stability.trim.contigs.good.names.
Unable to open mothur/stability.trim.contigs.good.names. Trying
mothur's executable directory mothur/
stability.trim.contigs.good.names.
Unable to open mothur/stability.trim.contigs.good.names.
Unable to open stability.trim.contigs.good.names
You have no current namefile or sharedfile and the name or shared
parameter is required, unless inflating or deflating an existing count
file.
[ERROR]: did not complete count.seqs.
mothur > get.current()
Current RAM usage: 0.131126 Gigabytes. Total Ram: 8 Gigabytes.
Current files saved by mothur:
accnos=stability.trim.contigs.bad.accnos
fasta=stability.trim.contigs.good.unique.fasta
contigsreport=stability.contigs_report
count=stability.trim.contigs.good.count_table
processors=8
summary=stability.trim.contigs.summary
Current default directories saved by mothur:
        mothur/
Current working directory: /Users/natalieburkhard/bio-490/
independentStudy/Week9Attempt2/
Output File Names:
current files.summary
mothur > unique.seqs(fasta=stability.trim.contiqs.qood.fasta)
6638
        1533
Output File Names:
stability.trim.contigs.good.unique.fasta
stability.trim.contigs.good.count_table
mothur > summary.seqs(count=stability.trim.contigs.good.count_table)
Using stability.trim.contigs.good.unique.fasta as input file for the
fasta parameter.
```

Using 8 processors.

	Start	End	NBases	Ambigs	Polymer	NumSeqs
Minimum: 1	250	250	0	3	1	
2.5%-tile:	1	252	252	0	4	166
25%-tile:	1	252	252	0	4	1660
Median: 1	252	252	0	4	3320	
75%-tile:	1	253	253	0	5	4979
97 . 5%-tile:	1	253	253	0	6	6473
Maximum: 1	255	255	0	8	6638	
Mean: 1	252	252	0	4		
# of unique ca	anc :	1533				

of unique seqs: 1533

total # of seqs: 6638

It took 0 secs to summarize 6638 sequences.

Output File Names:

stability.trim.contigs.good.unique.summary

mothur > pcr.seqs(fasta=silva.bacteria.fasta, start=11894, end=25319, keepdots=F)

Using 8 processors.

[NOTE]: no sequences were bad, removing silva.bacteria.bad.accnos

It took 7 secs to screen 14956 sequences.

Output File Names:

silva.bacteria.pcr.fasta

mothur > system(mv silva.bacteria.pcr.fasta silva.v4.fasta)

mothur > summary.seqs(fasta=silva.v4.fasta)

Using 8 processors.

	Start	End	NBases	Ambigs	Polymer	NumSeqs
Minimum: 2	13425	270	0	3	1	
2.5%-tile:	2	13426	292	0	4	374
25%-tile:	2	13426	293	0	4	3740
Median: 2	13426	293	0	4	7479	
75%-tile:	2	13426	293	0	5	11218
97.5%-tile:	2	13426	294	1	6	14583
Maximum: 4	13426	351	5	9	14956	
Mean: 2	13425	292	0	4		

of Segs: 14956

It took 1 secs to summarize 14956 sequences.

Output File Names: silva.v4.summary

mothur > align.seqs(fasta=stability.trim.contigs.good.unique.fasta,
reference=silva.v4.fasta)

Using 8 processors.

Reading in the silva.v4.fasta template sequences... DONE. It took 4 to read 14956 sequences.

Aligning sequences from stability.trim.contigs.good.unique.fasta ... It took 0 secs to align 1533 sequences.

It took 0 seconds to align 1533 sequences.

Output File Names: stability.trim.contigs.good.unique.align stability.trim.contigs.good.unique.align_report

mothur > summary.seqs(fasta=stability.trim.contigs.good.unique.align, count=stability.trim.contigs.good.count_table)

Using 8 processors.

	Start	End	NBases	Ambigs	Polymer	NumSeqs
Minimum: 1968	11550	250	0	3	1	•
2.5%-tile:	1969	11551	252	0	4	166
25%-tile:	1969	11551	252	0	4	1660
Median: 1969	11551	252	0	4	3320	
75%-tile:	1969	11551	253	0	5	4979
97 . 5%-tile:	1969	11551	253	0	6	6473
Maximum: 1969	11553	255	0	8	6638	
Mean: 1968	11550	252	0	4		
# a#a a aa a a a		1522				

of unique seqs: 1533

total # of seqs: 6638

It took 0 secs to summarize 6638 sequences.

Output File Names:

stability.trim.contigs.good.unique.summary

mothur > screen.seqs(fasta=stability.trim.contigs.good.unique.align, count=stability.trim.contigs.good.count_table, summary=stability.trim.contigs.good.unique.summary, start=1968, end=11550, maxhomop=8)

Using 8 processors.

It took 1 secs to screen 1533 sequences, removed 1532.

Running command:

remove.seqs(accnos=stability.trim.contigs.good.unique.bad.accnos.temp, count=stability.trim.contigs.good.count_table)

Removed 6637 sequences from stability.trim.contigs.good.count_table.

Output File Names:

stability.trim.contigs.good.pick.count_table

Output File Names:

stability.trim.contigs.good.unique.good.summary

stability.trim.contigs.good.unique.good.align

stability.trim.contigs.good.unique.bad.accnos

stability.trim.contigs.good.good.count_table

It took 1 secs to screen 1533 sequences.

mothur > summary.seqs(fasta=current, count=current)

1

Using stability.trim.contigs.good.good.count_table as input file for the count parameter.

Using stability.trim.contigs.good.unique.good.align as input file for the fasta parameter.

Using 8 processors.

	Start	End	NBases	Ambigs	Polymer	NumSeqs
Minimum: 1968	11553	252	0	5	1	
2.5%-tile:	1968	11553	252	0	5	1
25%-tile:	1968	11553	252	0	5	1
Median: 1968	11553	252	0	5	1	
75%-tile:	1968	11553	252	0	5	1
97.5%-tile:	1968	11553	252	0	5	1
Maximum: 1968	11553	252	0	5	1	
Mean: 1968	11553	252	0	5		

of unique seqs:
total # of seqs: 1

It took 0 secs to summarize 1 sequences.

```
Output File Names:
stability.trim.contigs.good.unique.good.summary
mothur >
filter.segs(fasta=stability.trim.contigs.good.unique.good.align,
vertical=T, trump=.)
Using 8 processors.
Creating Filter...
It took 0 secs to create filter for 1 sequences.
Running Filter...
It took 0 secs to filter 1 sequences.
Length of filtered alignment: 252
Number of columns removed: 13174
Length of the original alignment: 13426
Number of sequences used to construct filter: 1
Output File Names:
stability.filter
stability.trim.contigs.good.unique.good.filter.fasta
mothur >
unique.seqs(fasta=stability.trim.contigs.good.unique.good.filter.fasta
, count=stability.trim.contigs.good.good.count_table)
        1
Output File Names:
stability.trim.contigs.good.unique.good.filter.unique.fasta
stability.trim.contigs.good.unique.good.filter.count table
mothur >
pre.cluster(fasta=stability.trim.contigs.good.unique.good.filter.uniqu
e.fasta,
count=stability.trim.contigs.good.unique.good.filter.count table,
diffs=2)
Using 8 processors.
When using running without group information mothur can only use 1
processor, continuing.
Total number of sequences before precluster was 1.
```

pre.cluster removed 0 sequences. Running command: get.seqs(fasta=stability.trim.contigs.good.unique.good.filter.unique.f asta, accnos=stability.trim.contigs.good.unique.good.filter.unique.precluste r.fasta.temp) Selected 1 sequences from stability.trim.contigs.good.unique.good.filter.unique.fasta. Output File Names: stability.trim.contigs.good.unique.good.filter.unique.pick.fasta /************************************/ Done. It took 0 secs to cluster 1 sequences. Using 8 processors. Output File Names: stability.trim.contigs.good.unique.good.filter.unique.precluster.fasta stability.trim.contigs.good.unique.good.filter.unique.precluster.count table stability.trim.contigs.good.unique.good.filter.unique.precluster.map mothur > chimera.vsearch(fasta=stability.trim.contigs.good.unique.good.filter.u nique precluster fasta, count=stability.trim.contigs.good.unique.good.filter.unique.precluster .count_table, dereplicate=t) Using 8 processors. Using vsearch version v2.16.0. Checking sequences from stability.trim.contigs.good.unique.good.filter.unique.precluster.fasta When using template=self, mothur can only use 1 processor, continuing. It took 0 secs to check your sequences. 0 chimeras were found. No chimeras found, skipping remove.segs. Output File Names: stability.trim.contigs.good.unique.good.filter.unique.precluster.denov o.vsearch.chimeras stability.trim.contigs.good.unique.good.filter.unique.precluster.denov

o.vsearch.accnos

mothur >

remove.seqs(fasta=stability.trim.contigs.good.unique.good.filter.unique.precluster.fasta,

accnos=stability.trim.contigs.good.unique.good.filter.unique.precluste
r.denovo.vsearch.accnos)

Removed 0 sequences from

stability.trim.contigs.good.unique.good.filter.unique.precluster.fasta

Output File Names:

stability.trim.contigs.good.unique.good.filter.unique.precluster.pick.
fasta

mothur >

classify.seqs(fasta=stability.trim.contigs.good.unique.good.filter.uni
que.precluster.pick.fasta,

count=stability.trim.contigs.good.unique.good.filter.unique.precluster
.count_table, reference=trainset9_032012.pds/

trainset9_032012.pds.fasta, taxonomy=trainset9_032012.pds/
trainset9_032012.pds.tax, cutoff=80)

Using 8 processors.

Reading template taxonomy... DONE.

Reading template probabilities... DONE.

It took 4 seconds get probabilities.

Classifying sequences from

stability.trim.contigs.good.unique.good.filter.unique.precluster.pick.
fasta ...

It took 0 secs to classify 1 sequences.

It took 0 secs to create the summary file for 1 sequences.

Output File Names:

stability.trim.contigs.good.unique.good.filter.unique.precluster.pick.
pds.wang.taxonomy

stability.trim.contigs.good.unique.good.filter.unique.precluster.pick.
pds.wang.tax.summary