

Additional file 6

Micca commands (version 1.6.2)

16S

```
micca mergepairs -i reads16S/*_R1*.fastq -o reads16S/merged.fastq
```

```
micca stats -i reads16S/merged.fastq -o reads16S/merged.stats
```

```
micca trim -i reads16S/merged.fastq -o reads16S/trimmed.fastq -w CCTACGGGNGGCWGCAG -r  
GACTACNVGGGTWTCTAATCC -W -R -c
```

```
micca filterstats -i reads16S/trimmed.fastq -o reads16S/trimmed.stats
```

```
micca filter -i reads16S/trimmed.fastq -o reads16S/filtered.fasta -e 0.5 -m 400
```

```
micca otu -m denovo_greedy -i reads16S/filtered.fasta -o reads16S/denovo_greedy_otus -t 4 -c
```

```
micca classify -m rdp -i reads16S/denovo_greedy_otus/otus.fasta -o  
reads16S/denovo_greedy_otus/taxa.txt
```

```
micca msa -m nast -i reads16S/denovo_greedy_otus/otus.fasta -o  
reads16S/denovo_greedy_otus/msa.fasta --nast-template core_set_aligned.fasta.imputed --nast-  
threads 8
```

```
micca tree -i reads16S/denovo_greedy_otus/msa.fasta -o reads16S/denovo_greedy_otus/tree.tree
```

```
micca root -i reads16S/denovo_greedy_otus/tree.tree -o  
reads16S/denovo_greedy_otus/tree_rooted.tree
```

```
micca tobiom -i reads16S/denovo_greedy_otus/otutable.txt -o  
reads16S/denovo_greedy_otus/tables.biom -t reads16S/denovo_greedy_otus/taxa.txt
```

```
micca tablestats -i reads16S/denovo_greedy_otus/otutable.txt -o  
reads16S/denovo_greedy_otus/tablestats
```

```
micca tablerare -i reads16S/denovo_greedy_otus/otutable.txt -o  
reads16S/denovo_greedy_otus/otutable_rare.txt -d 45000
```

```
micca tabletotax -i reads16S/denovo_greedy_otus/otutable.txt -t  
reads16S/denovo_greedy_otus/taxa.txt -o reads16S/denovo_greedy_otus/taxtables
```

```
micca tabletotax -i reads16S/denovo_greedy_otus/otutable_rare.txt -t  
reads16S/denovo_greedy_otus/taxa.txt -o reads16S/denovo_greedy_otus/taxtables_rare
```

```
micca tablebar -i reads16S/denovo_greedy_otus/taxtables_rare/taxtable$i.txt -o  
reads16S/denovo_greedy_otus/taxtables_rare/taxtable$i.png
```

```
micca tablebar -i reads16S/denovo_greedy_otus/otutable.txt -o  
reads16S/denovo_greedy_otus/otutable_plot.png
```

ITS

```
micca mergepairs -i readsITS/*_R1*.fastq -o readsITS/merged.fastq
```

```
micca stats -i readsITS/merged.fastq -o readsITS/merged.stats
```

```
micca trim -i readsITS/merged.fastq -o readsITS/trimmed.fastq -w GATGAAGAACGYAGYRAA -r  
CTBTTVCKCTTCACTCG -W -R -c
```

```
micca filterstats -i readsITS/trimmed.fastq -o readsITS/trimmed.stats
```

```
micca filter -i readsITS/trimmed.fastq -o readsITS/filtered.fasta -e 0.5 -m 335
```

```
micca otu -m denovo_greedy -i readsITS/filtered.fasta -o readsITS/denovo_greedy_otus -t 4 -c
```

```
micca classify -m rdp --rdp-gene fungalits_unite -i readsITS/denovo_greedy_otus/otus.fasta -o  
readsITS/denovo_greedy_otus/taxa.txt
```

```
micca msa -m nast -i readsITS/denovo_greedy_otus/otus.fasta -o  
readsITS/denovo_greedy_otus/msa.fasta --nast-template core_set_aligned.fasta.imputed --nast-  
threads 8
```

```
micca msa -i readsITS/denovo_greedy_otus/otus.fasta -o readsITS/denovo_greedy_otus/msa.fasta --  
nast-threads 8
```

```
micca tree -i readsITS/denovo_greedy_otus/msa.fasta -o readsITS/denovo_greedy_otus/tree.tree
```

```
micca root -i readsITS/denovo_greedy_otus/tree.tree -o  
readsITS/denovo_greedy_otus/tree_rooted.tree
```

```
micca tobiom -i readsITS/denovo_greedy_otus/otutable.txt -o  
readsITS/denovo_greedy_otus/tables.biom -t readsITS/denovo_greedy_otus/taxa.txt
```

```
micca tablestats -i readsITS/denovo_greedy_otus/otutable.txt -o  
readsITS/denovo_greedy_otus/tablestats
```

```
micca tablerare -i readsITS/denovo_greedy_otus/otutable.txt -o  
readsITS/denovo_greedy_otus/otutable_rare.txt -d 41000
```

```
micca tabletotax -i readsITS/denovo_greedy_otus/otutable.txt -t  
readsITS/denovo_greedy_otus/taxa.txt -o readsITS/denovo_greedy_otus/taxtables
```

```
micca tabletotax -i readsITS/denovo_greedy_otus/otutable_rare.txt -t  
readsITS/denovo_greedy_otus/taxa.txt -o readsITS/denovo_greedy_otus/taxtables_rare
```

```
micca tablebar -i readsITS/denovo_greedy_otus/taxtables_rare/taxtable$i.txt -o  
readsITS/denovo_greedy_otus/taxtables_rare/taxtable$i.png
```

```
micca tablebar -i readsITS/denovo_greedy_otus/otutable.txt -o  
readsITS/denovo_greedy_otus/otutable_plot.png
```