



\***OPTIONAL:** Merge several \_asv.rds files of different runs analysed together, and produce DADA2 output files of the merged data. If only 1 run is analysed you can directly use the output of dada\_main\_process.

\*\* If one wants to work on OTU variants (individual ASVs making up the OTUs) at some point in the data analysis, activate this process. Only works in FROGS.

#The step of decontam and filtering in R is optionally inserted within the flow of the pipe. It may be skipped and run after the pipeline is completed BUT this results in much longer runs of LULU, which duration increases exponentially with the number of ASV/OTU being treated.

Clarification on databases and assignments methods:

As of 04/2020,

RDP can be used on ASVs using database files in: **`/home/ref-bioinfo/tools_data/dada2`**

BLAST can be used on any fasta file in **`/home/ref-bioinfo/tools_data/frogs`**

Within FROGS, the scripts are written so that BLAST and RDP assignments occur in parallel (`--rdp` option).

This works ONLY if databases are in the FROGS format.

In: **`/home/ref-bioinfo/tools_data/frogs`**, databases in the functional FROGS format are:

16S\_greengenes\_13.5; 16S\_silva132; 16S\_silva132-abyss-seq; 18S\_pr2 (v 4.5)

BOLD\_COI-5P\_2019-02-01; midori (full and marine versions)

For the moment being, with Genbank COI database only BLAST works (remove `--rdp` in your personal copy of the abyss-pipeline `frogs.pbs` script line 116)

**For more FROGS-formatted databases, see:**

[http://genoweb.toulouse.inra.fr/frogs\\_databanks/assignation/](http://genoweb.toulouse.inra.fr/frogs_databanks/assignation/)

Or contact

`frogs-support@inra.fr`