<PHYMYC0-DB>



Tutorial

June 2011 release

This PHYMYCO-DB tutorial aims to help users to use efficiently the database and its tools.

It contains details about how to use the options offered on the left of the main screen (alignments, downloads, selection of fungal sequences, taxonomic browser)

It also refers to a submitted paper that we expect to be published soon.



Content

1-Execute clustalW	3
- > From fasta format file	3
-> From aln format file	4
2. Download sequences	5
3. Download alignment files	6



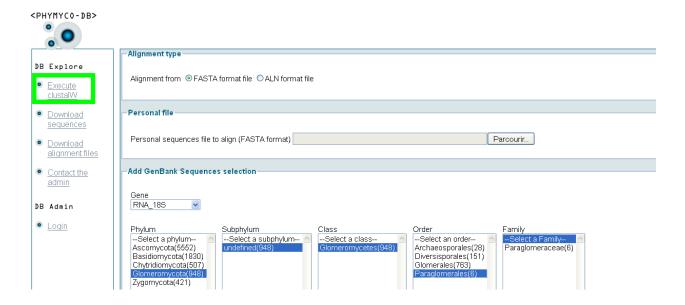
1. Execute clustalW:

<PHYMYCO-DB>

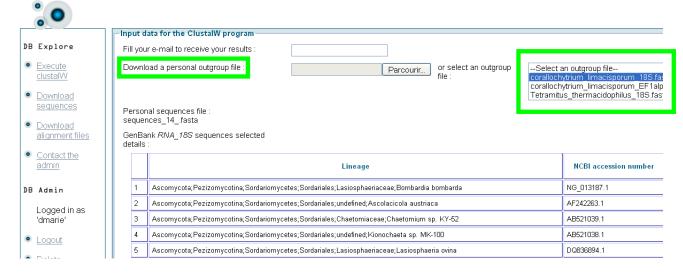
You can execute an alignment on our computer clusters with ClustalW 2.0 and receive the results in your e-mail box.

-> From fasta format file:

First, upload your personal sequences file '.fasta' (1000 sequences max.). Then select the gene of interest (SSU rRNA or EF-1- α gene) and sequences from PHYMYCO-DB using our taxonomic browser.

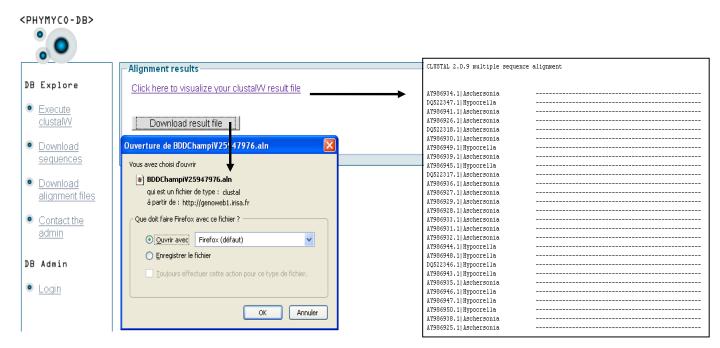


Finally, you have the possibility to add an outgroup from a personal file '.fasta' or from our set of outgroup files stored in the database. To launch the application, click on 'Align with ClustalW'.



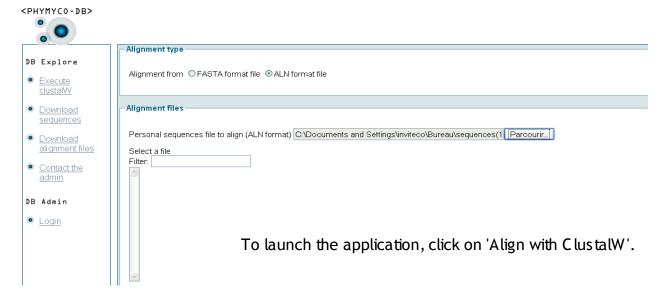


Once the job is completed you receive an e-mail containing a link. You can visualize the alignment in HTML format or you can download it as a '.aln' format file.



-> From aln format file:

First, upload your personal sequences file '.aln' (1,500 Ko max.). Then, choose one of our pre-computed alignments - manually cross-checked and stored in the database. They contain up to 400 sequences and are specific to a class or a particular group of fungi.

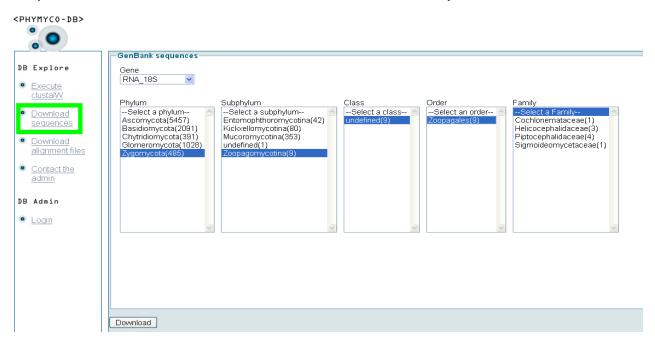




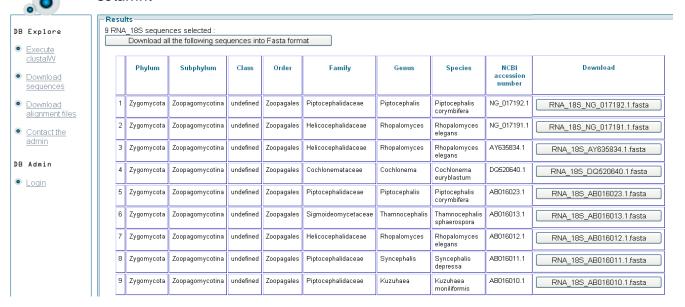
<PHYMYCO-DB>

2. Download sequences:

All the fungal sequences contained in PHYMYCO-DB are automatically curated and then manually curated (process explained in details in a submitted publication about PHYMYCO-DB). Choose a gene (SSU rRNA or EF-1- α in this PHYMYCO-DB upgrade) and a taxonomic level. The number in brackets corresponds to the total number of sequences for the considered taxonomic level. Click on Envoyer.



You can download all the sequences from the taxonomic level chosen or only sequences of interest, one by one, by clicking on the button in the download column.





3. Download alignment files:

You can download one of the pre-computed alignments. They were manually cross-checked and can contain up to 400 sequences of a whole phylum or several classes, families or orders.

S elect an alignment using the filter. The name of the taxonomic level is contained in the file name. And C lick on Download.

