# WHAT'S *NEW* IN TOPALi v

#### http://www.bioss.ac.uk/knowledge/topali

#### New and improved graphical user interface





# Combine cDNA and Guide Protein

Protein multiple alignment algorithms produce better results than do DNA multiple alignment algorithms. TOPALi now allows you to create a DNA alignment by using the data from CDNA and a guide protein alignment when importing a new dataset.

Alignment Creation (cDNA/Protein)	
Select the two files that will be used to o	zeate a new DNA alignment.
Unaligned cDNAs input file:	Browse
Guide protein alignment file:	Browse
	OK Cancel Help

XML Based Project Structure TOPALi now uses a XML based structure for its project files (which are stored compressed), allowing for better compatibility with other programs that want to share its data.

project>
<datasets name="bglobinpep"></datasets>
- <sequence-set is-dna="false" length="147"></sequence-set>
coverview>* * * * * * * * * * * * * * * * * * *
**
<selected-sequences>0</selected-sequences>
<selected-sequences>1</selected-sequences>
<selected-sequences>2</selected-sequences>
<selected-sequences>3</selected-sequences>
<selected-sequences>4</selected-sequences>
<selected-sequences>5</selected-sequences>

### Integrated JavaHelp User Manual

The user manual for TOPALi v2 is now integrated into the application in JavaHelp format, allowing you to easily move between help sections or to print areas of interest.



All TOPALi dialogs now have access to the help system directly from the dialog, which will jump you straight to the relevant section of help for that dialog

d: 1149591082217-143.234.98.21 (remote) DSS Analysis 1 on pvy-9692 (4/4 sequences) Pressier

vnalvsis 2 on pvv-9692 (4/4 sequences)

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Tue Jun 06 11:50:25 BST 2006 (Runtime: 0h

## Show glig: Close Defaults Help

TOPALi now runs its main analysis jobs on remote HPC clusters, which frees up your PC for other tasks while you wait on results. You can submit more than one job at a time too, and they'll queue up for running later if no slots are currently available on the cluster



Run Jobs Remotely and in Parallel

Many of these tasks are designed to run in parallel – both on clusters and on desktop PCs with more than one processor. This obviously has a dramatic effect in reducing the time taken to complete a job.

#### Work with Multiple, Multiple Alignments



A TOPALi project can now import and deal with as many DNA/Protein alignments as your PC has memory for. Each alignment in listed in a new "tree" view down the left-hand side of the screen, along with all the analysis results that relate to that dataset.



**Create Groups From Trees and Extract Representatives** 





#### Alignment Overviews



Using the Alignment Overview feature you can view the entire alignment in a floating window while still working with a close-up area in detail. Scrolling around the overview automatically moves the main display too

#### **Dim Unselected Sequences**



By ticking the option in the Display Settings, you can have TOPALi dim sequences that are not currently selected, making it easier to focus on those that are

#### Support for Drag n Drop

On supported systems, you can use standard drag and drop operations to load alignments or TOPALi projects into the application. TOPALi supports dragging and dropping of more than one alignment at a time too



#### Monitor Analysis Jobs

As your analysis jobs run (either locally or

# remotely) their status is continually tracked by TOPALi and displayed in the status bar. A coloured icon represents overall job status -green for OK, blue for communication errors, and red for critical job errors!

#### Floating Tree Tooltips

By using floating tree tooltips, you can instantly view a phylogenetic tree of the area currently under the mouse cursor



The feature can be enabled on a per-graph basis

Tree ToolTips
Enable phylogenetic tree tooltips
Window size under mouse cursor (in nucleotides): 500 💭
Close Help

#### **TOPALi** Tips

Each area of the TOPALi interface now comes with tips to help you work more effectively with it, requiring less visits to the help system to learn how to use the program.



#### Support for Authenticating Proxy Servers

If you are behind a proxy server that controls your access to the internet, TOPALi can be set to send all its internet requests through this machine. Support for proxies that require authentication (including NTLM) is included.

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