ngKLAST

# Next-generation sequence similarity search platform

ngKLAST is a graphical platform containing the KLAST high-performance sequence similarity search tool. With an easy-to-use workflow engine and a unified set of data viewers, the ngKLAST platform makes large scale databank exploration accessible to every life science researcher.



# ngKLAST main features

# **Databank Search (KLAST)**



## **Databank Installation**



#### - Automatic deployment from remote servers

- Install public databanks (e.g. NCBI, Uniprot, Silva, DNA Barcodes, etc.)
- Prepare personal databanks
- Manage sequences, annotations and biological classifications
- Prepare taxonomic subsets from public databanks

## **Data Visualization**



- Sequences, Genomes, 3D structures
- Mutilple sequence alignments (Clustal/Muscle) viewer and editor
- Phylogenetic trees
- Conserved regions
- Features, annotated Hit 2D plots
- Biological Classification (Taxonomy, Gene Ontology, Enzyme, Interpro)

### **Data Query and Management**



- Query sequence databanks (nucleotides, proteins)
- Query 3D structure databank (PDB)
- Query local and remote (NCBI, RSCB) services
- Batch retrieval of sequences
- Direct KLAST submission
- Analyse data using convenient viewers
- Export data (text, spreadsheet, images, PDF, ...)
- Organize data safely over time
- Share data with other users

# Discover more about KLAST applications on:



#### System Requirements

- Starter configuration:
- desktop computer
- Intel 64-bit quad-core
- 8 Gb RAM
- Windows, Linux or MacOS X (64-bit required)
- Java Runtime 1.6 (64-bit required)

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