

KoriScale Demo

KLAST: fast, accurate and NGS scalable bank-to-bank sequence similarity search tool

What is KLAST ?

KLAST is a professional sequence similarity search tool for processing high volumes of genomic sequences providing significant accelerations of seeds-based heuristic comparison methods, such as the Blast suite. Relying on unique software architecture, KLAST takes full advantage of recent multi-core personal computers without requiring any additional hardware devices.

KLAST achieves two major goals:

1. provide a fast and cost-effective sequence comparison tool
2. provide high-quality results

KLAST can be tuned for quality or speed. Compared to BLAST suite software, KLAST achieves the following speed-up:

	Quality	Speed
Speed-up	5-10	20-50

Speed-up compared to BLAST

Demo

The demo will present the use and performances of KLAST through three time-consuming genomic applications:

- **Genome annotation**
- **Genome comparison**
- **Analysis of metagenomic data.**

Availability

An academic version of KLAST is also available at: <http://koriscale.inria.fr>

KLAST is distributed by the Korilog Company

***KoriScale is an Inria Innovation Lab.** The idea is to bring together an Inria project team and a partner SME in a joint laboratory. The two entities define a joint, specific work program lasting two to three years. Incentives are given by Inria to the project team involved, while the SME can receive government assistance to finance its research project. The Inria Innovation Lab KoriScale, created in May 2013, is the follow-up to a successful partnership between the SME Korilog, a specialist in genomic sequence comparison tools, and the IRISA/INRIA research team GenScale.*