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Bri-shur.com - A Site For Bioinformatics Computations

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Overview

A newly developed web-site with several popular services on bioinformatics is presented. Intended audience is biologists who need an easy access to the tools for the analysis of their data. Typical execution time of one job is from seconds to hours on a single CPU. Services are intended to be provided free of charge.

Impact

The site implements the intended analysis using most popular and adequate tools and the results of the original algorithms are comparable with the commonly accepted level of quality for targeted problems. So the site has a chance to attract some users from the intended audience.

Description of the work

The popular bioinformatics algorithms including multiple alignment, homology search, homology modeling and others are integrated into one web-interface with a possibility to use pipelines for typical biological problems. The service is designed to be distributed among available hardware platforms to optimize a load to a particular servers where jobs are executed. Web-interface is implemented on ruby while codes of particular algorithms vary from freely available software with closed sources, including GPL and other open-source packages and ending with original and newly developed software. Several databases from ncbi portal are copied to servers to be used locally for the retrieval.

URL

http://bri-shur.com

Conclusions

The technology of convenient bioinformatics pipelines is widely discussed and no one from a proposed solutions is not yet accepted as the only best solution from all the aspects. So the proposed approach could be an example for the alternative decision in this subject.

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