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TEAM: An open web-based tool for the design and management of panels of genes for clinical applications

DESCRIPTION OF THE TECHNOLOGY

TEAM (Targeted Enrichment Analysis and Management) is an open web-based tool for the design and management of panels of genes for targeted enrichment and massive sequencing for diagnostic applications.

Sequencing targeted to specific diseases is becoming increasingly important as a diagnostic application thanks to its power and cost-effectiveness. However, the lack of adequate data processing bioinformatics tools limits their widespread use. TEAM is a simple and intuitive tool that solves this need and facilitates the search for mutations in diagnostics panels of genes, among genetic variants predicted for each patient.

TEAM allows users to define their own panels of genes. The definition is based on disease terms obtained from different databases (HGMD-public, HUMSAVAR, ClinVar and COSMIC). Each disease term has the corresponding disease genes associated.

Thus, when a VCF file is uploaded in the systems, TEAM searches for known diagnostic mutation(s).

If found, a report is generated, otherwise provides tools for the prioritization for the unexpected findings

MARKET APPLICATION SECTORS

Companies in the pharmaceutical and biotechnology sectors developing new diagnostics methods for human diseases.

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

The lack of adequate bioinformatics tools for genomic data processing limits the widespread use of massive sequencing. TEAM is a simple and intuitive tool that solves this need and facilitates the search for mutations in diagnostics panels of genes.

CURRENT STATE OF DEVELOPMENT

Software developed and available at <http://team.babelomics.org>.

INTELLECTUAL PROPERTY RIGHTS

TEAM source code is licensed under Apache License Version 2.0, January 2004



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COLABORATION SOUGHT

Collaboration with health and pharmaceutical companies as well as research organizations interested in the application of TEAM technology for the design of gene panels in clinical applications.

RELATED IMAGES

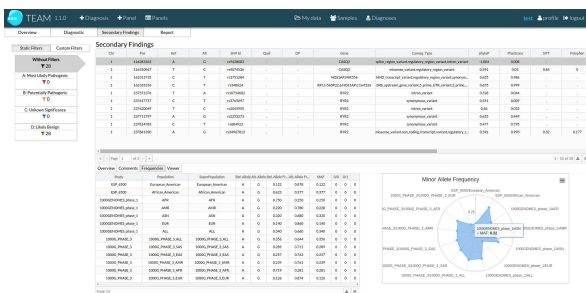


Image 1: TEAM user interface

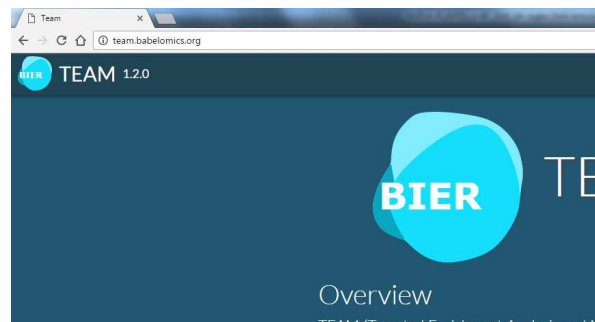


Image 2: TEAM website

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