QC certification system for antibodies dedicated to genome-wide studies and associated database

First quantifiable measurement for the quality of sequencing datasets obtained by massive parallel sequencing and the quality of the reagents used for the profiling

KEYWORDS

Next Generation Sequencing
QC
ChIP-seq grade antibodies

PATENTS

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INVENTORS

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TECHNOLOGY

- Bioinformatic tool generating both global and local numerically defined quality control (QC) parameters for genome-wide NGS profiling data sets. This QC system is applicable to all NGS-based profiling and to certification process of antibodies dedicated to genome-wide studies
- Database comprising a 2-dimensional representation of the global QC parameters

APPLICATIONS

- Quality control of NGS profiling and **quality control of the reagents used for the profiling**

INNOVATION ADVANTAGES

This appoach allows:
- The attribution of a quality label to the profiling
- The determination of the optimal sequencing depth
- The determination of the best method to implement for a given sample
- **First QC of antibodies dedicated to genome-wide studies based on quantitative descriptors**
    - Possibility to give insights for the improvement of the quality of NGS data obtained with a given antibody

DEVELOPMENT STATUS

- Fully automated pipeline for the QC of client antibodies:
    - Highly reproducible procedure with lowest possible variability
- Comprehensive database hosting currently >20k datasets:
    - A powerful source for the quality control certification of antibodies used in NGS-generated dataset

Partnership: *seeking partners for license or services*

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