



New York University School of Medicine
Office of Industrial Liaison/Technology Transfer

DNA Supervisor

Graphics

Principal Inventors:

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Description of the Technology:

This DNA Supervisor improves DNA sequencing efforts and provides new analysis capabilities using Ordered Restriction Maps. The NYU Courant Bioinformatics Group has developed a suite of mathematical models and algorithms for three troublesome problems in the field of genome analysis: Validation, Alignment, and Restriction Fragments Translocations Detection and Correction. DNA Supervisor, the suite of software programs developed pursuant to these algorithms, solves these problems related to the vast amounts of biological data now available in the form of DNA sequences.

Features and Benefits:

We have been building a complex set of tools based on a number of technologies centered around the idea of single molecule physical mapping. These tools are built on a well-founded statistical-mathematical analysis of the biomedical and optical processes at hand. Our results point out how our technology can be useful in assessing and improving the goodness of various sequence and map data currently being published in a variety of formats from a variety of sources.

Applications:

DNA Supervisor may be applied to the study of cancers resulting from translocation of DNA, cancer diagnostics, or the identification of genetically modified organisms.

Patent Status:

U.S. and international patent applications pending.

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