

LABNOVO: A NOVEL OPEN-SOURCED WEB SERVICE FOR MANAGING LABORATORY DATA AND PROTOCOLS

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The general methods for the cloning and sequencing of 16s rDNA fragments have not changed significantly for the past decade. These techniques have contributed to the enormous amounts of genomic sequence data being harvested in recent years. While there are a variety of software packages that are available to manage these sequence data, there are no freely accessible web services that manage the relationships between laboratory data derived from sample processing and their respective genomic sequences. Here, we present a web service which manages laboratory data derived from the collection, processing and sequencing of samples. The service also offers a workbench for sequence analysis built on a novel revision repository system. Furthermore, the platform automates numerous housekeeping tasks and has an integrated social network for collaboration. **LABnovo** maintains a comprehensive database for the collection and analysis of data derived from the collection, processing and sequencing of samples, and will provide researchers with an organized, streamlined experience.