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Title

A Clone ReArray System for DNA Finishing at the Joint Genome Institute

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Publication Date

2005-01-15

A Clone ReArray System for DNA Finishing at the Joint Genome Institute,
Martin Pollard, Steven Wilson, Simon Roberts, Michele Martinez, Department of Energy Joint
Genome Institute.

The Department of Energy Joint Genome Institute has designed and built a system to rearray clones from our sequencing libraries as part of our sequencing finishing process. The system consists of a Tecan Genesys 200 RSP and an automated refrigerator/freezer with a 1000 plate capacity. Library source plate and well information is downloaded to the system which retrieves the plates from the storage unit, places them in the Tecan work envelope, rearrays the samples, and returns the plates to the storage unit. Plates have previously been thawed to 4°C, and access to samples is through piercing of the plate sealers. The design, implementation, and performance results will be discussed. This research was funded by the Biological and Environmental Research Program and the US Department of Energy's Office of Science.

This work was performed under the auspices of the US Department of Energy's Office of Science, Biological and Environmental Research Program and by the University of California, Lawrence Livermore National Laboratory under Contract No. W-7405-Eng-48, Lawrence Berkeley National Laboratory under contract No. DE-AC03-76SF00098 and Los Alamos National Laboratory under contract No. W-7405-ENG-36.