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**Project ID:** 0506-KL-045

**FY04 ARS Agreement #:** 59-0790-4-110

**Research Area:** BIO

**Duration of Award:** 1 Year

**Project Title:** Acquisition of the Haruna Nijo Bacterial Artificial Chromosome Library.

PROJECT 1 ABSTRACT

(1 Page Limit)

The goal of this project is to acquire the barley cultivar Haruna Nijo Bacterial Artificial Chromosome (BAC) library to supplement the cultivar Morex BAC library already available to barley scientists. The Haruna Nijo library is made from a 2-rowed cultivar DNA while the Morex library is made from a 6-rowed cultivar DNA. Thus, it is expected to cover regions that might be absent in the Morex library. In addition, the additional library will double the genome coverage from 6X to 12X available to North American Barley workers. The Haruna Nijo BAC library was constructed by Dr. Sato in Japan. He has agreed to provide the library to North American barley workers for the cost of duplicating and arraying the library. The library will be deposited in the Arizona Genomics Institute who will maintain the library and make the clones freely available to North American Barley workers.