



United States Department of Agriculture

Research, Education and Economics
Agricultural Research Service

Kathleen P. Nolan, J.D.
Associate Director
Sponsored Programs
1850 Research Park Drive, Suite 300
University of California
Davis, CA 95618

June 24, 2010

Dear Dr. Nolan:

Administrative approval is granted for Drs. Guihua Bai and Robert Bowden, USDA-ARS scientists in Manhattan, Kansas, to collaborate with you on the project titled "*Improving barley and wheat germplasm for changing environments.*" It is our understanding the University of California-Davis is submitting this proposal to the U.S. Department of Agriculture, NIFA-AFRI with the USDA-ARS as a sub-recipient. If a grant is awarded as a result of this application, the USDA-ARS will accept an award to perform the work as outlined in the proposal.

I understand the proposed research will utilize research facilities in the USDA Hard Winter Wheat Genetics Research Unit (HWWGRU) at the USDA-ARS Center for Grain and Animal Health Research (USDA-ARS-CGAHR) in Manhattan, Kansas. This project will accelerate the elucidation of mechanisms that govern wheat resistance to rusts and tolerance to drought environments and the development of new breeding tools and new germplasm lines to minimize the damage caused by these stresses. This is a project that fits well within the mission of the USDA-ARS-CGAHR as detailed in USDA-ARS National Programs 301 and 303.

Sincerely,

W.H. Blackburn
Area Director

cc:

Thomas Shanower, Center Director
Robert Bowden, Research Leader
Guihua Bai, Plant Molecular Geneticist



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