

**ANNUAL REPORT
COMPREHENSIVE RESEARCH ON RICE
January 1, 1996- December 31, 1996**

PROJECT TITLE: Marker Assisted Breeding of California rice varieties

STATUS OF PROPOSAL: Continuing

PROJECT LEADER: P. C. Ronald, Dept. Plant Pathology

PRINCIPLE UC INVESTIGATORS: D. Mackill, Dept. Agronomy

COOPERATORS: C. Williams, Purdue University

LEVEL OF 1996 FUNDING: 18,000.00

Objectives and Experiments:

Our objectives were to develop markers for the wide compatibility trait and for fingerprinting of California rice varieties.

Summary of 1996 research:

We confirmed the usefulness of our markers in screening for a wide compatibility locus in California rice varieties (Williams et al, in preparation). We will use this years funding to complete our second objective which is to develop markers for fingerprinting California varieties. No additional funding is requested for these experiments. In the next year we will also test the durably resistant African rice cultivar (Moroberekan) for resistance to the recently identified California blast isolates. Finally, we will test the effectiveness of Ciba Geigy's compound "Activator" against the local blast isolates.