



Australian Centre for Plant Functional Genomics

Abiotic Stress & Productivity in Cereals

The Australian Centre for Plant Functional Genomics (ACPFG) is a \$55 million research centre which combines genetics, physiological and developmental information with functional genomics to identify and characterise the genes controlling adaptation to abiotic stresses in wheat, barley and model species.

This is a joint program with Professors Peter Langridge (CEO) and Geoff Fincher (University of Adelaide), Professor German Spangenberg (Plant Biotechnology Centre, Bundoora) and Professor Kaye Basford (University of Queensland).

The aim of the program is to use functional genomics approaches (genetics, genomics, proteomics, metabolomics) to understand the mechanisms employed by grasses (cereals and native grasses) to survive extremes of abiotic stress.

The key outcomes are to develop cereals with improved tolerance to stress:

- moisture / heat / frost stress
- salinity-induced stresses
- mineral toxicity / deficiency

As a student with the ACPFG you will:

- Have dedicated support from your supervisor and the ACPFG research team
- Conduct research of direct significance to Australian and international agriculture
- Have access to world class facilities, professional training and resources
- Have the opportunity to be involved in ACPFG National conferences and research meetings at our interstate nodes.

2005 Honours Scholarships

The Australian Centre for Plant Functional Genomics is offering five \$3,000 (tax free) Honours Scholarships for students commencing February 2005.

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PLANT CELL BIOLOGY RESEARCH CENTRE

Visit our Website - www.plantcell.unimelb.edu.au