

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

New South Wales

The University of New England

LP100100880 Prof Julius H Van Der Werf, Prof Brian P Kinghorn

Approved Project Title **Methods to infer dense genomic information from sparsely genotyped populations**

2010	\$100,000.00
2011	\$90,000.00
2012	\$90,000.00
Primary FoR	0604 GENETICS

Partner Organisations

Genus plc, Pfizer Animal Health

Administering Organisation The University of New England

Project Summary

Prediction of phenotype based on DNA polymorphisms or sequence has important applications such as prediction of disease risk in human medicine and prediction of genetic value in plant or animal breeding. This project will enhance precision and lower the cost of association studies leading to substantial increase in accuracy of such predictions. This will allow more effective genetic improvement, particularly of difficult but important traits such as disease resistance, reduced green-house gas emissions and product quality. The same methods can be extended to improve genetic improvement in plants and better prediction of human disease risk.