

GRDC investment in R, D & E to address important issues identified by the Southern Regional Cropping Solutions Network

List of investments was current at 31 May 2019



GENETIC TECHNOLOGIES

- Agronomy to support the expansion of feed grain production in Tasmania
- Australian Cereal Rust Control Program - National Breeding Support
- Collection, phenotyping and exploitation of wild Cicer genetic resources for chickpea improvement
- Effective genetic control of Septoria Triciti Blotch
- Effective genetic control of Stagonospora Nodorum Blotch
- Enabling Analytics for Grain Crop Monitoring Applications - Crop classification and mapping of phenological characteristics
- Genetic solution to Crown Rot in barley
- Genotype and management combinations for highly productive cropping systems in the high rainfall zone of South Australia
- Hyper-yielding cereals - a feed grain initiative
- Identifying low pH tolerance and effective rhizobia for wild Cicer to improve adaptation to acid sandy soils
- Improved adaption of Barley to Acid Soils
- Improved resistance to oat pathogens and abiotic priority traits
- Improving Crown Rot resistance in wheat
- Improving weed management in pulse crops through herbicide tolerance
- Managing crop disease - improving chickpea pathogen resistance
- Mining the ICARDA germplasm collection for biotic and abiotic priority traits
- National Barley Foliar Pathogen Variety Improvement Program
- National Brassica Germplasm Improvement Program
 - » Blackleg
 - » Drought and heat
 - » Shattering
 - » Oil yield
- National Frost Initiative - Genetics
- National Variety Trails (NVT) Program
- New tools and germplasm for Australian pulse and oil seed breeding programs to respond to changing virus threats
- Optimised canola profitability - understanding the relationship between physiology and tactical agronomy and management
- Pulse Breeding Australia (PBA)
 - » PBA Lentil Breeding Program
 - » PBA Chickpea Breeding Program
 - » PBA Field Pea Breeding Program
 - » PBA Faba Bean Breeding Program
- Reverse genetics for the development of wheat cultivars with improved resistance to necrotrophic pathogens
- The potential of the pearl lupin (*Lupinus mutabilis*) for southern Australia
- Transpirational control and oxidative stress tolerance traits as components of salinity stress tolerance in cereals
- Waterlogging and acid soil screening of pulses