



**Preparedness and Prevention Research**  
enhanced decision-making underpinned by an understanding of biosecurity risk



**Diagnostics Research**  
enhanced tools and protocols to diagnose harmful plant pests and diseases



**Surveillance Research**  
enhanced tools and protocols to manage area freedom and secure market access



**Impact Management Research**  
enhanced strategies and tools to manage and minimise the impact of incursions



**Post-Harvest Integrity Research**  
enhanced biosecurity knowledge, tools and strategies to secure stored grain exports, market access and supply chain operations



**Education and Training**  
increase Australia's biosecurity skills base through education and capacity building



**Delivery and Adoption**  
use of program outputs by stakeholders and commercialisation of technology

## Why is plant biosecurity important?

Australia is relatively free from many of the harmful plant pests and diseases that seriously impact on agricultural industries in other countries. Through the absence of many pests and diseases commonly found overseas, Australia's plant industries have a valuable competitive advantage in terms of securing market access and maintaining lower production costs.

If these pests or diseases found their way into Australia, the economic viability of Australia's plant industries (which have a farm gate value of over \$18 billion and contribute over \$12 billion to export income) would be directly threatened. Even the perception of pests or diseases in Australian produce would have a rapid and negative impact on its reputation as a producer of safe, quality food products.



### Cooperative Research Centre for National Plant Biosecurity

The Cooperative Research Centre for National Plant Biosecurity was established and is supported under the Australian Government's Cooperative Research Centres Program.

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## Biosecurity research and education for Australia's plant industries

*biosecurity built on science*





## About CRC for National Plant Biosecurity

The Cooperative Research Centre for National Plant Biosecurity started operating in 2005 in recognition of the need to strengthen the scientific capacity underpinning Australia's plant biosecurity system.

Our corporate office is located in Canberra where we centrally coordinate plant biosecurity scientific research across the country. We have an extensive collaborative network of researchers and educators from 23 participating organisations representing industry, universities, state and federal government. Through international collaboration, we can also facilitate broad acceptance and adoption of our new technologies to enhance Australia's trading position.

We aim to provide leadership in the development, execution and delivery of plant biosecurity research to:

- safeguard Australia's plant industries
- ensure food security for Australian consumers, and
- improve market access for agricultural exporters.

## our vision...

is to be a world leader in the generation, development and delivery of plant biosecurity science and education.

## our mission...

is to foster scientific collaboration and engage stakeholders to deliver plant biosecurity technologies that will reduce risk to, and ensure sustainability of, Australia's plant industries.



## Our programs

Our research is driven by the Australian Government's national research priority of 'safeguarding Australia from invasive diseases and pests, and from terrorism and crime' to ensure trade market access and industry sustainability. To help address these priorities and provide mechanisms for education, training and delivery, we have organised our portfolio into seven programs. The first five programs focus on innovative research activities that span the full biosecurity continuum; pre-border, border and post-border.

Recognising the need to be better prepared and prevent problems before they occur – our Preparedness and Prevention Research Program delivers the knowledge required to underpin decisions on the risk of entry, establishment and spread for exotic harmful plant pests and diseases.

To rapidly and accurately diagnose these pests and diseases, our Diagnostics Research Program is developing new tools and procedures to provide access to data and expertise that is accurate, sensitive, reliable and cost-effective.

The Surveillance Research Program is developing sound and cost-effective surveillance procedures and new technologies to assist in accurately defining Australia's plant health status and market access.

Our Impact Management Research Program is developing management strategies to minimise the social and economic impact of a harmful plant pest or disease incursion.

To support the health and competitiveness of Australia's grain industry, the Post-Harvest Integrity Research Program is contributing to the management of biosecurity threats in the post-harvest grains sector.

Our sixth program, Education and Training, provides resources to support PhD students, workshops/training in plant biosecurity and the development of a national schools program and postgraduate curriculum in plant biosecurity.

To maximise the adoption of new research, the Delivery and Adoption Program is facilitating the delivery, commercialisation and use of all program outputs to appropriate end-users.

Visit [www.crcplantbiosecurity.com.au](http://www.crcplantbiosecurity.com.au) for comprehensive information on our research projects.

## Our participants

We have participants from all states and territories on mainland Australia and involve a majority of plant biosecurity specialists in the country. One of our strengths is that all end-user groups (industry, state and federal governments) are involved, ensuring maximum potential for delivery and uptake of project outputs.

The Cooperative Research Centre for National Plant Biosecurity is a cooperative venture between the following 23 core and supporting participant organisations, established and supported under the Australian Government's Cooperative Research Centres Program.

### Core participants

- ABB Grain Ltd
- Australian Government Department of Agriculture, Fisheries and Forestry
- Charles Darwin University
- Co-operative Bulk Handling Limited
- CSIRO
- Department of Agriculture and Food, Western Australia
- Department of Primary Industries, Victoria
- GrainCorp Operations Ltd
- Grains Research and Development Corporation
- Industry & Investment, NSW
- La Trobe University
- Murdoch University
- Plant Health Australia Ltd
- Queensland Primary Industries and Fisheries
- Queensland University of Technology
- Saturn Biotech Limited
- South Australian Research and Development Institute

### Supporting participants

- Charles Sturt University
- Horticulture Australia Ltd
- Northern Territory Department of Regional Development, Primary Industry, Fisheries and Resources
- Southern Cross University
- University of Adelaide
- University of Western Australia