

Research Institute for Northern Agriculture

The Northern Territory's beef industry is worth \$1.2 billion and employs 10,000 people directly and indirectly throughout the supply chain. Northern Australia is recognised as a high-risk zone for the introduction of exotic pests and pathogens due to its vastness, remoteness and high vulnerability. The cropping sector in northern Australia has huge potential while facing unique challenges. Aquaculture in northern Australia is growing rapidly in volume and value while also expanding into new species, including First Nationsled developments.

Why investigate northern agriculture with RINA?

The Research Institute for Northern Agriculture (RINA) is addressing the opportunities and challenges of sustaining and developing primary industry in northern Australia. RINA builds on existing research expertise and infrastructure including state-of-the-art laboratories, field infrastructure, Katherine Research Campus and a collaborative network of partners.



RINA is supported by the Australian Government Department of Education.



Australian Government Department of Education



Professor SUNIL KADRI Professor of Tropical Aquaculture



Professor MAXINE PIGGOTT RINA Program Leader, Professor of Tropical Biosecurity





Professor STEPHEN XU Professor of Cropping Systems

Assoc. Professor BETH PENROSE Professor of Sustainable Pastoral Systems

Research Areas



Tropical Aquaculture

We study biology, animal behaviour and animal welfare in aquaculture systems, and support industry and Indigenous communities in developing and growing aquaculture sustainably. Our research encompasses a number of areas including new species development; technological advancement; and meeting the behavioural needs of cultured aquatic animals.



Tropical Biosecurity

We undertake multi-disciplinary research across invasive animal, plant and aquatic pests and diseases and collaborate with industry, industry bodies and government to provide students with opportunities for professional development as well as career progression in biosecurity.



Cropping Systems

We tackle pressing issues by providing farmers with knowledge about how crops respond to climate fluctuations and resource availability. Utilizing approaches such as carbon farming and precision agriculture, we not only enhance crop yields but also help alleviate the impacts of climate change.



Sustainable Pastoral Systems

We apply understanding of the plants, animals and environments to provide research for current and future agricultural systems. Our main research interests are to improve the productivity and sustainability of agricultural systems, with a primary focus on livestock industries.

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