

# ECO-breeds

## Participation of the Centre for Organics Research (COR) as an Australian partner?

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# Centre for Organics Research (COR)

- **Established in November 2017**
- **First organic farming focused R&D and training centre in Australia**
- **Joint Research Centre of the**
  - **New South Wales - Department of Primary Industries (NSW-DPI) and**
  - **Southern Cross University (SCU)**
- **COR collaborates closely with the**
  - **Plant Science Department at SCU (Prof Graham King; Prof Bronwyn Barkla)**
  - **Cereal Breeding Group at NSW-DPI (Dr Livinus Emebiri)**



**AUSTRALIA**

**Queensland**

**Lismore**

**New South Wales**

**Gold Coast (QL)**  
**Tweed Head**

**Coffs Harbour**

**Sydney**





← Lismore campus –



# **COR contribution to ECO-breeds activities?**

## **1. Farmer-participatory evaluation/benchmarking of new wheat varieties**

- **Years 1&2** Evaluation of varieties from **Australian wheat breeding programmes** on certified organic farms in the 2-4 major wheat growing regions/environments in Australia (WA, Riverina, NSW/QL borders, Central Queensland)
- **Year 3** Transfer of 3-4 selected genotypes from EU-breeding breeding programmes through quarantine in Australia
- **Years 4&5** Evaluation/benchmarking of promising wheat genotypes from Southern European and AU (years 1&2) variety trials on certified organic farms in the 2-4 major wheat growing regions/environments in Australia

## **2. Factorial field experiments at DPI Yanco**

- **Years 2&3** Effects of contrasting fertilisation and irrigation protocols on the performance of selected varieties from Australian wheat breeding programmes
- **Years 4&5** Effect of contrasting fertilisation and irrigation protocols on the performance of selected varieties from EU and AU wheat breeding programmes

**Assessments:** Yield parameters, pest and disease severity, competitiveness against weeds, nutrient and water use efficiency, nutritional composition (phytochemicals, mineral)





**COR Organic arable farmer  
R&D networks**

(established in collaboration with  
Australian Certified Organic Pty Ltd)

- 1. Western Australia
  - 2. Riverina (DPI Yanco)\*
  - 3. NSW/QL borders
  - 4. Central Queensland
- \* irrigated and non-irrigated

Gold Coast (QL)  
Tweed Head  
Coffs Harbour

Sydney





Thank you