Dr Greg Rebetzke

Consultant, Wheat Genetics and Plant Breeding
Chief Research Scientist, CSIRO Agriculture and Food
Honorary Professor, QAAFI, The University of Queensland

About Greg Rebetzke

Dr Greg Rebetzke is an internationally recognised wheat geneticist and plant breeder with over 30 years of experience in crop improvement research, breeding program development, and genetic gain optimisation. His expertise spans quantitative genetics, plant physiology, phenomics, breeding strategy, and the development of improved germplasm for enhanced productivity and resilience in challenging production environments.

Throughout his career, Greg has worked closely with public and private breeding organisations to improve the efficiency and effectiveness of breeding programs. His research has contributed to the development and adoption of innovative breeding methodologies, improved trait evaluation systems, and wheat varieties with enhanced adaptation to drought, heat stress, and changing climatic conditions.

Greg brings extensive experience in breeding program assessment, performance benchmarking, breeding pipeline optimisation, and strategies to maximise genetic gain. His combination of scientific expertise and practical industry engagement provides breeding organisations with valuable insights into program design, investment priorities, and continuous improvement opportunities. He is also one of a few public researchers who continues to release commercial wheat varieties to growers.

His contributions to the Australian grains industry have been widely recognised, including receiving the prestigious GRDC Seed of Light Research Excellence awards for outstanding achievements in wheat genetics and breeding research.

Areas of Expertise

- Wheat breeding strategy and program design
- Quantitative genetics and biometrical analysis
- Genetic gain assessment and optimisation
- Breeding program review and benchmarking
- Trait development for drought adaptation and climate resilience
- Phenotyping and breeding technologies
- Research translation and industry adoption

Qualifications

- PhD, Genetics and Plant Breeding, North Carolina State University, USA
- Master of Agricultural Science, The University of Queensland
- Bachelor of Applied Science (Honours), Queensland Agricultural College, Australia

Additional Information

Download Dr Greg Rebetzke's Curriculum Vitae (PDF)