

WARWICK CROP CENTRE

Knowledge, expertise and technology
for innovation, sustainable crop production
and environmental
protection



SCHOOL OF LIFE SCIENCES

WELLESBOURNE INNOVATION CAMPUS

WARWICK
THE UNIVERSITY OF WARWICK



OUR EXPERTISE

- **Crop genetic improvement:** novel crop traits, collaborative pre-breeding research
- **Crop physiology:** nutrition and development
- **Soil health:** microbial interactions and microbiome
- **Plant pests and pathogens:** biology, epidemiology, monitoring, forecasting and diagnostics, integrated pest and disease management
- **Low-carbon farming and land use management:** delivery of ecosystem services, nutrient and water use efficiency
- **Bee and pollinator health:** honey bee genomics, biological control

OUR FACILITIES

- **High-quality labs and skilled research staff**
- **Controlled environment:** dedicated pest and pathogen unit with growth rooms
- **Glasshouses and polytunnels:** with environmental control and containment
- **Field trials areas:** 40 ha land including specialist areas for pests, pathogens and a low nutrient area
- **UK Vegetable Genebank:** international collections of vegetable seed including brassica, lettuce, carrot and onion to underpin crop improvement
- **The Natural Light Growing Centre:** novel ETFE greenhouse, a Crop Health and Protection (CHAP) Agri-Tech Centre asset funded by Innovate UK



WARWICK CROP CENTRE

Crop science has been conducted at the Wellesbourne Campus for more than 70 years with a focus on supporting and collaborating with the horticulture and fresh produce industries to promote competitive and sustainable farming.

We invite partnerships for research and innovation and offer specialist facilities alongside unique expertise to provide high quality science across a diverse portfolio of research.

As part of the University of Warwick we also provide links to other industry-relevant departments, including Engineering, Warwick Manufacturing Group, Computer Science and Mathematics.



EXAMPLES OF OUR IMPACT



Crop improvement

The Defra-funded UK Vegetable Genebank is a unique international resource for research and breeding of vegetable crops such as brassica, lettuce, onion and carrot. The Vegetable Genetic Improvement Network project utilises these resources to identify new traits such as pest and disease resistance and crop resilience. We then support companies to exploit these traits through new breeding technologies to accelerate the development of improved crop varieties for growers and consumers.

Integrated pest and disease management

Warwick research underpins a range of approaches to pest and disease control such as diagnostics, monitoring, forecasting systems, host plant resistance and improvement of biopesticide performance. Development of tools and approaches to support integrated pest and disease management alongside knowledge exchange on best practice aims to improve crop protection strategies and the use of biopesticides for growers and agronomists.



CONTACT US

We specialise in working collaboratively to provide high-quality crop science.

We welcome:

- Short and long-term research projects
- Innovative ideas which we can help develop into research grant proposals
- Research projects and ideas for PhD and Masters students
- Opportunities to link with other expertise, facilities and interdisciplinary research within the University of Warwick
- Enquiries from businesses interested in locating alongside us at Wellesbourne Innovation Campus



INDUSTRY COLLABORATORS AND FUNDERS



Waitrose



Agrii



BRITISH GROWERS

AHDB

Elsoms

syngenta



Hazera
Seeds of Growth



KOPPERT
BIOLOGICAL SYSTEMS

MORE INFORMATION

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