

# Crop Health

To nurture healthy plants and crops, increasing food productivity sustainably and protecting the environment, our work focuses on strategic research into the biology and control of diseases of agricultural, horticultural and tree health. A key theme for us is in disease surveillance and risk forecasting which is strongly supported by our expertise and specialist knowledge in epidemiology, pathogen and disease identification, molecular diagnosis, spatial aspects of disease spread, knowledge management and transfer.

The team is dedicated to the development of technologies that enable stakeholders to make decisions across the agri-food chain and in the environment. Our interest is in the application of generic solutions such as polymerase chain reaction, isothermal amplification and next generation sequencing techniques. In particular we have considerable expertise in developing diagnostics for front line use. We work with growers, agronomists and Defra developing methods to enable better detection of plant pathogens in propagation material, soil, water and air. Early detection of pathogens in crops enables us to initiate control measures much earlier, preventing spread and reducing the impact of disease. We offer the most comprehensive range of testing services and are the UK's largest testing service provider for crop health, receiving in excess of 8,500 samples a year.





***“We care about the world and the environment. We are driven by a need to address important global issues such as sustainably feeding a growing population and security challenges. That’s why we use our original thinking and innovation in developing early stage detection to solve the big issues facing the agri-food industry.”***

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Our scientists conduct research and development studies to identify ways to improve crop health, yield, efficiency and value. In addition we offer a suite of resources, testing facilities and expertise to help industry to develop sustainable solutions. Undertaking high quality research and monitoring to provide robust evidence, solutions and advice on the epidemiology and control of plant diseases in agriculture, horticulture and the natural environment is at our core.

With over 100 years experience of delivering pest and disease identification services to a wide range of commercial growers and Government departments, both in the UK and overseas, we understand the needs of our customers.



**Rick Mumford**  
Director of Science