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## Research output

Jacott, C. N., Schoonbeek, H., Sidhu, G. S., Steuernagel, B., Kirby, R., Zheng, X., von Tiedermann, A., Macioszek, V. K., Kononowicz, A. K., Fell, H., Fitt, B. D. L., Mitrouisia, G. K., Stotz, H. U., Ridout, C. J., & Wells, R. (2024). Pathogen lifestyle determines host genetic signature of quantitative disease resistance loci in oilseed rape (*Brassica napus*). *Theoretical and Applied Genetics (TAG)*, 137(3), 1-19. Article 65. <https://doi.org/10.1007/s00122-024-04569-1>

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## **Projects**

### **ADAS, ELSOMS, HDC, Limagrain, Trialsforce and WIN**

Fitt, B. & Stotz, H.

Home Grown Cereals Authority (HGCA)

1/01/14 → 31/12/16

### **Analyses of air samples for ascospores of Leptosphaeria maculans and L. biglobosa by quantitative PCR**

Huang, Y. & Fitt, B.

Home Grown Cereals Authority (HGCA)

1/06/14 → 1/10/14

### **Antiviral and Antibacterial Stainless Steel**

Ren, G., Fitt, B. & Stair, J.

Royal Academy of Engineering (RAE)

1/08/13 → 30/11/14

### **Characterisation of the resistance phenotype against the asymptomatic growth phase of Pyrenopeziza brassicae in selected doubled haploid (DH) lines of oilseed rape**

Fitt, B. & Karandeni Dewage, C. S.

20/06/16 → 10/11/16

### **Decreasing risk of severe phoma stem canker caused by Leptosphaeria biglobosa on winter oilseed rape**

Huang, Y. & Fitt, B.

Felix Thornley Cobbold Agricultural Trust

1/09/15 → 30/08/18

### **Developing adaptation strategies to mitigate the impacts of climate change on diseases of wheat and maize and food production in Egypt.**

Fitt, B., Richard, B. & Qi, A.

1/08/21 → 31/08/23

### **Effects of Mycogel on strawberry and vegetable root development**

Huang, Y., Fitt, B. & Hall, A.

J & S Technical Service Ltd

1/08/15 → 30/06/17

### **Effects of fungicides on interactions between Leptosphaeria maculans and L. biglobosa on oilseed rape**

Fitt, B. & Hall, A.

Gatsby Charitable Foundation

1/07/12 → 15/09/12

### **Effects of fungicides on interactions between phoma stem canker pathogens, severity of epidemics and oilseed rape yield**

Fitt, B., Huang, Y. & Stotz, H.

DuPont UK

1/09/13 → 30/12/15

### **Fungicide effects on phoma stem canker in Winter Oilseed Rape**

Fitt, B.

Felix Thornley Cobbold Agricultural Trust

1/10/11 → 30/09/15

### **Genomics-led improvement of biotic and abiotic stress tolerance in mustard rape for economic and environmental sustainability**

Stotz, H., Fitt, B. & Sayed, M. H.

1/10/18 → 31/08/21

**Identification of avirulent alleles of pathogen effector genes in UK Leptosphaeria maculans (phoma stem canker) populations**

Huang, Y. & Fitt, B.  
20/06/16 → 31/12/16

**Identification of cultivar resistance against Leptosphaeria maculans and L. biglobosa in oilseed rape (Brassica napus)**

Huang, Y. & Fitt, B.  
26/06/17 → 26/11/17

**Identification of phoma stem canker causal pathogens (Leptosphaeria maculans and L. biglobosa) on different winter oilseed rape cultivars from AHDB RL field trials using quantitative PCR**

Huang, Y. & Fitt, B.  
3/07/17 → 8/09/17

**31 March 2023: Identification, selection, characterization and optimisation of antimicrobial proteins from food insects and indigenous chickens' skin and feathers as ingredients for food and industrial applications**

Ren, G., Timms, A., Fitt, B., Stair, J., Oloo, B., Nduko, J., Ogendo, J. & Mungai, N.  
1/10/22 → 31/03/23

**Impacts of climate change on occurrence and distribution of the pathogenic seed-borne fungi of wheat and maize in Egypt.**

Fitt, B.  
1/04/18 → 31/03/20

**Improved management of light leaf spot in Brassicas by exploiting resistance and understanding pathogen variation**

Fitt, B. & Slater, R.  
Horticultural Development Council  
1/08/13 → 28/02/19

**Integrated strategies to control Leptosphaeria pathogens on winter oilseed rape in the UK**

Fitt, B. & Huang, Y.  
UKRI - UK Research and Innovation  
1/09/16 → 31/10/20

**Interactions between phoma stem canker pathogens and Jicencse resistance in oilseed rape**

Fitt, B.  
Government of Malaya  
1/06/11 → 30/11/14

**Mechanistic Analysis of Quantitative Disease Resistance in Brassica by Associative Transcriptomics**

Fitt, B.  
ERA-CAPS (BBSRC)  
1/11/15 → 30/09/18

**Molecular identification and quantification of Leptosphaeria maculans and L. biglobosa from upper stem lesions on oilseed rape cultivars with different resistance**

Huang, Y. & Fitt, B.  
Home Grown Cereals Authority (HGCA)  
1/07/13 → 30/09/13

**Mycotoxin-producing fusarium species and related pathogenic fungi in cereal crops**

Fitt, B.  
Department for Environment, Food and Rural Affairs (Defra)  
1/01/11 → 31/03/12

**Oilseed Rape Genetic Improvement Network**

Huang, Y. & Fitt, B.

Department for Environment, Food and Rural Affairs (Defra)

1/04/13 → 31/08/14

**Oilseed Rape Genetic Improvement Network (OREGIN) - Phase 5**

Huang, Y. & Fitt, B.

1/03/18 → 31/03/23

**Oilseed Rape Genetic Improvement Network (OREGIN): Harnessing natural genetic variation**

Huang, Y. & Fitt, B.

Department for Environment, Food and Rural Affairs (Defra)

29/01/15 → 31/07/18

**Population dynamics of Pyrenopeziza brassicae under Irish field conditions**

Fitt, B.

1/12/17 → 30/11/20

**Predicting the effects of climate change on the severity of crop disease epidemics**

Fitt, B.

The John Oldacre Foundation

1/02/12 → 31/01/16

**SAIN: Addressing vulnerabilities and building capacity for adaption of agriculture to climate change in China**

Fitt, B.

Department for Environment, Food and Rural Affairs (Defra)

1/01/11 → 31/12/13

**Strategies to increase durability of resistance to phoma stem canker pathogens on oilseed rape**

Huang, Y. & Fitt, B.

Technology Strategy Board / BBSRC

1/09/15 → 31/08/18

**Strategies to prevent spread of Leptosphaeria maculans (cause of phoma stem canker of brassicas) into China.**

Fitt, B., Zhang, X., Demir, E., White, R., Jedryckza, G., Islam, M., Li, Z. & Li, G.

2/02/12 → 3/09/12

**Suppression of the plant immune response by effectors produced by Leptosphaeria maculans**

Fitt, B. & Stotz, H.

The British Society for Plant Pathology (BSPP)

1/06/13 → 9/08/13

**Sustainable yield of oilseed rape through improved resistance against Leptosphaeria maculans (phoma stem canker)**

Stotz, H. & Fitt, B.

The British Society for Plant Pathology (BSPP)

20/07/15 → 27/09/15

**Sustainable yield of oilseed rape through improved resistance against Leptosphaeria maculans (phoma stem canker)**

Stotz, H. & Fitt, B.

1/10/15 → 30/09/19

**Symptomless infection of barley: resistance strategies - SIBLINGS**

Fitt, B.

Technology Strategy Board

1/01/11 → 31/12/16

**Understanding R gene-mediated resistance against Leptosphaeria maculans for effective control of phoma stem canker in oilseed rape**

Huang, Y. & Fitt, B.  
The Perry Foundation  
1/07/15 → 30/06/18

**Understanding R gene-mediated resistance against Leptosphaeria maculans for effective control of phoma stem canker in oilseed rape**

Huang, Y. & Fitt, B.  
1/03/16 → 31/03/20

**Understanding changes in pathogen population for effective use of host resistance**

Huang, Y. & Fitt, B.  
1/02/22 → 31/03/22

**Understanding interactions between Leptosphaeria maculans and L. biglobosa for improving control of phoma stem canker on oilseed rape in the UK**

Huang, Y. & Fitt, B.  
1/09/21 → 31/08/24

**Understanding interactions between Leptosphaeria maculans and L. biglobosa for improving control of phoma stem canker on oilseed rape in the UK**

Huang, Y. & Fitt, B.  
1/09/21 → 31/08/24

**Understanding interactions between Leptosphaeria maculans and L. biglobosa for improving control of phoma stem canker on oilseed rape in the UK**

Huang, Y. & Fitt, B.  
1/08/23 → 30/08/25

**Understanding interactions between the fungal pathogens Leptosphaeria maculans (phoma stem canker) and Pyrenopeziza brassicae (light leaf spot) on oilseed rape**

Huang, Y. & Fitt, B.  
2/10/17 → 30/09/21

**Understanding long-term population dynamics of pathogens causing leaf blotch diseases on wheat**

Karandeni Dewage, C. S. & Fitt, B.  
21/06/21 → 6/09/21

**Understanding resistance to decrease risk of severe phoma stem canker**

Fitt, B.  
UKRI - Biotechnology and Biological Sciences Research Council (BBSRC)  
1/01/11 → 31/12/14

**Understanding risks of severe phoma stem canker caused by Leptosphaeria biglobosa on winter oilseed rape in the UK**

Huang, Y. & Fitt, B.  
Home Grown Cereals Authority (HGCA)  
1/04/15 → 31/03/19

**£199,148 Durable Resistance**

Fitt, B. & Kukol, A.  
European Commission (EC) - Horizon 2020  
1/05/11 → 1/04/13

## **Activities**

**The Paraglacial Rock-Slope Failure Record of Western Norway**  
Alastair Curry (Speaker) & Bruce Fitt (Organiser)  
24 Feb 2020

**Secrets of the Lady of the Lake: Deciphering 11,000 years of environmental history**  
Alastair Curry (Speaker) & Bruce Fitt (Organiser)  
10 Dec 2018

**Royal Society of Biology (RSB) (External organisation)**  
Bruce Fitt (Member)  
1 Jan 2011

**UKRI - Biotechnology and Biological Sciences Research Council (BBSRC) (External organisation)**  
Bruce Fitt (Member)  
1 Jan 2011 → 31 Dec 2013

**Perry Foundation (Agricultural Charitable Trust) (External organisation)**  
Bruce Fitt (Member)  
26 Oct 2007

**RERAD (External organisation)**  
Bruce Fitt (Member)  
1 Feb 2006

**Home Grown Cereals Authority (HGCA) (External organisation)**  
Bruce Fitt (Member)  
1 Jan 2001 → 31 Dec 2006

**Groupe Consultatif International de Rec (External organisation)**  
Bruce Fitt (Member)  
1 Jan 1997

**International Association of Aerobiology (External organisation)**  
Bruce Fitt (Member)  
1 Jan 1987

**The British Society for Plant Pathology (BSPP) (External organisation)**  
Bruce Fitt (Member)  
1 Jan 1981

**Association of Applied Biologist (External organisation)**  
Bruce Fitt (Member)  
1 Jan 1979

**British Mycological Society (External organisation)**  
Bruce Fitt (Member)  
1 Oct 1973

Best Regards  
Fitt, B. D. L.