

Work Package 2.1

Crop and Grassland Production and Disease Control



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SEFARI

Work Package 2.1

- 5 year programme 2016-2021
- Budget >£2Million per year
- Cross-MRP collaboration
- Involves over 100 scientists



Key policy drivers



- Scotland Economic Strategy
- Recipe for Success
- Becoming a Good Food Nation
- Scottish Rural Development Programme
- Integrated Pest Management Action Plan
- The Scottish Plant Health Strategy

Objectives



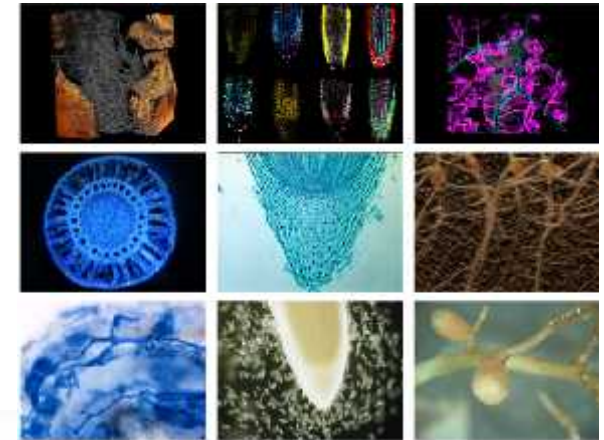
- To deliver crops resilient to environmental change, develop sustainable intensification approaches and improved agricultural practice that will impact on food security.
- Improved varieties – focus on barley, soft fruit and potatoes – quality, yield, resistance to diseases and environmental stress
- Integrated Pest Management systems which translate an understanding of plant- pest interactions, host resistance, epidemiology and new disease threats, supported by the use of monitoring, modelling and diagnostic technologies to improve crop performance.
- More efficient production systems, healthier soils and more sustainable rotations
- Realising the potential of novel and minor crops that could underpin the circular or bio-economy
- Research that is underpinned by the best use of resources and technologies including germplasm and pest collections, computational analyses, statistical modelling, diagnostics, and metagenomics



Knowledge Exchange



- Crop-Based KE Events
- Public science engagement – e.g. “the beauty of roots”
- Many end-user interactions – with industry and other stakeholders
- Policy



Structure



- The WP is organised in 8 research deliverables
- The WP has 2 co-ordinators (Alison Lees, Mark Taylor)
- The WP forms part of Theme 2 – Productive and Sustainable Land Management and Rural Economies (Mike Hutchings, SRUC lead)

Research Deliverables



RD2.1.1	Glenn Bryan	Genetic Diversity of Crops
RD2.1.2	Mark Taylor	Crop Genetic Improvement
RD2.1.3	Steve Whisson	Plant-pest Interactions
RD2.1.4	Adrian Newton	Plant Pest Epidemiology
RD2.1.5	Jennie Brierley	In-field Detection
RD2.1.6	Fiona Burnett	Integrated Pest Management
RD2.1.7	Philip White	Plant, Soil, Water Interactions
RD2.1.8	Pete Iannetta	Novel Crops

Please see the highlight posters for each RD



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