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Metabolomics profiling of wheat resistance

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Metabolomics Profiling of Wheat Resistance

Objective: Develop metabolomics methods for analysis of wheat resistance to fungal pathogens

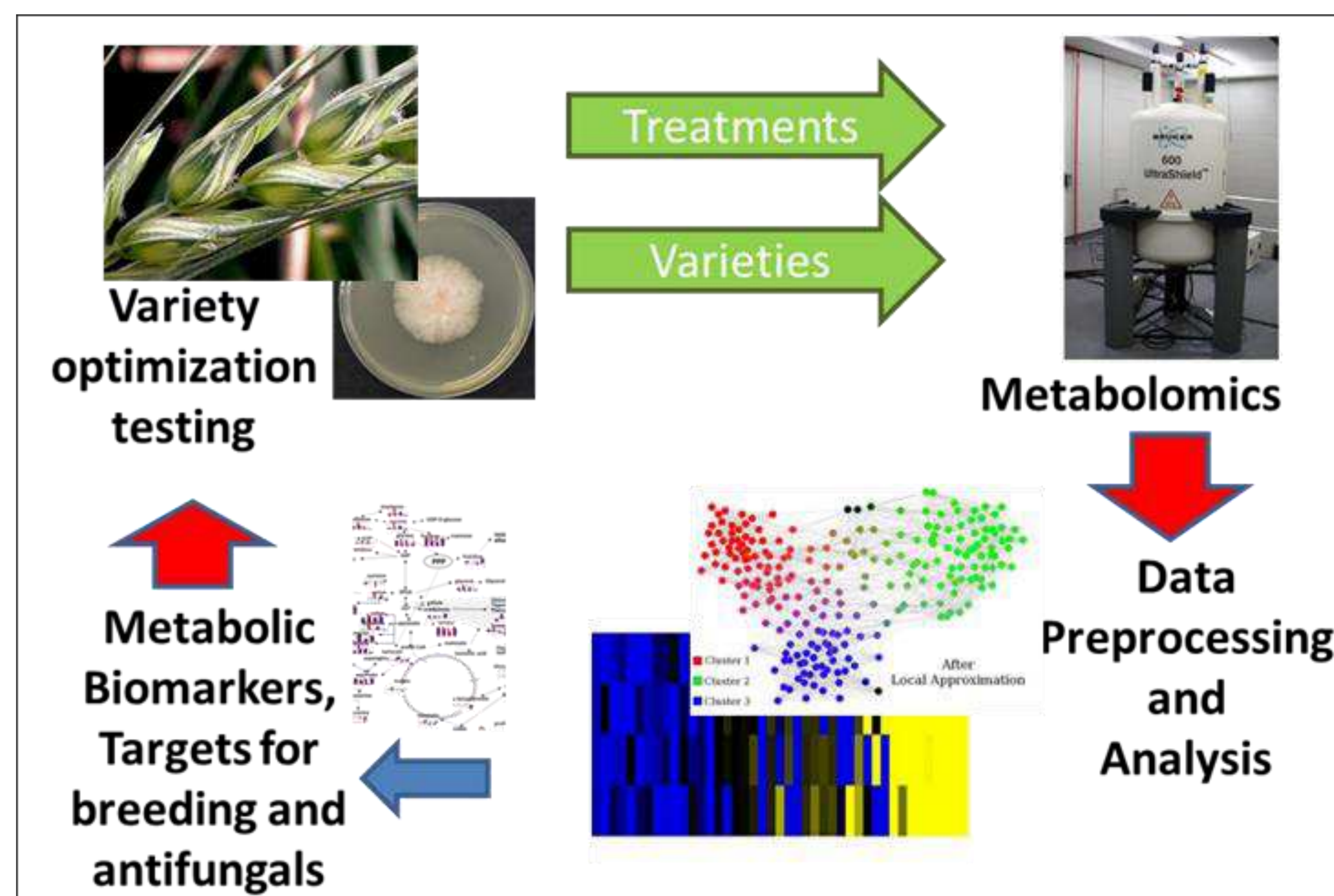
Outputs thus far: Experimental and analytical protocols and methods for metabolomics analysis of wheat infected with fungi;
Metabolic differences between fusarium head blight resistant and susceptible wheat varieties;
Major resistance related metabolites and their possible protein targets

Impact: Metabolic biomarkers of resistance;
Targets for future breeding and antifungal development

Deployment path: Extended metabolomics analysis with CWA and consortium partners

Delivery date: Summer 2017

Resources committed: 150K per year/over 5 years



Opportunity for collaboration: Analysis of metabolic profiles of wheat for optimized breeding or bio-pesticide development.

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