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Fusarium Head Blight resistant Canadian wheat through genomics

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Fusarium Head Blight Resistant Canadian Wheat through Genomics



Objective: Accelerate the production of Fusarium Head Blight (FHB) resistant wheat varieties; specifically to pursue potential new and native resistance from AAFC varieties FL62R1 and Emerson.

Outputs thus far: Wheat lines with FHB resistance comparable to the resistance standard (Sumai3). Two breeder-friendly molecular markers that tag major effect QTL developed and being tested.

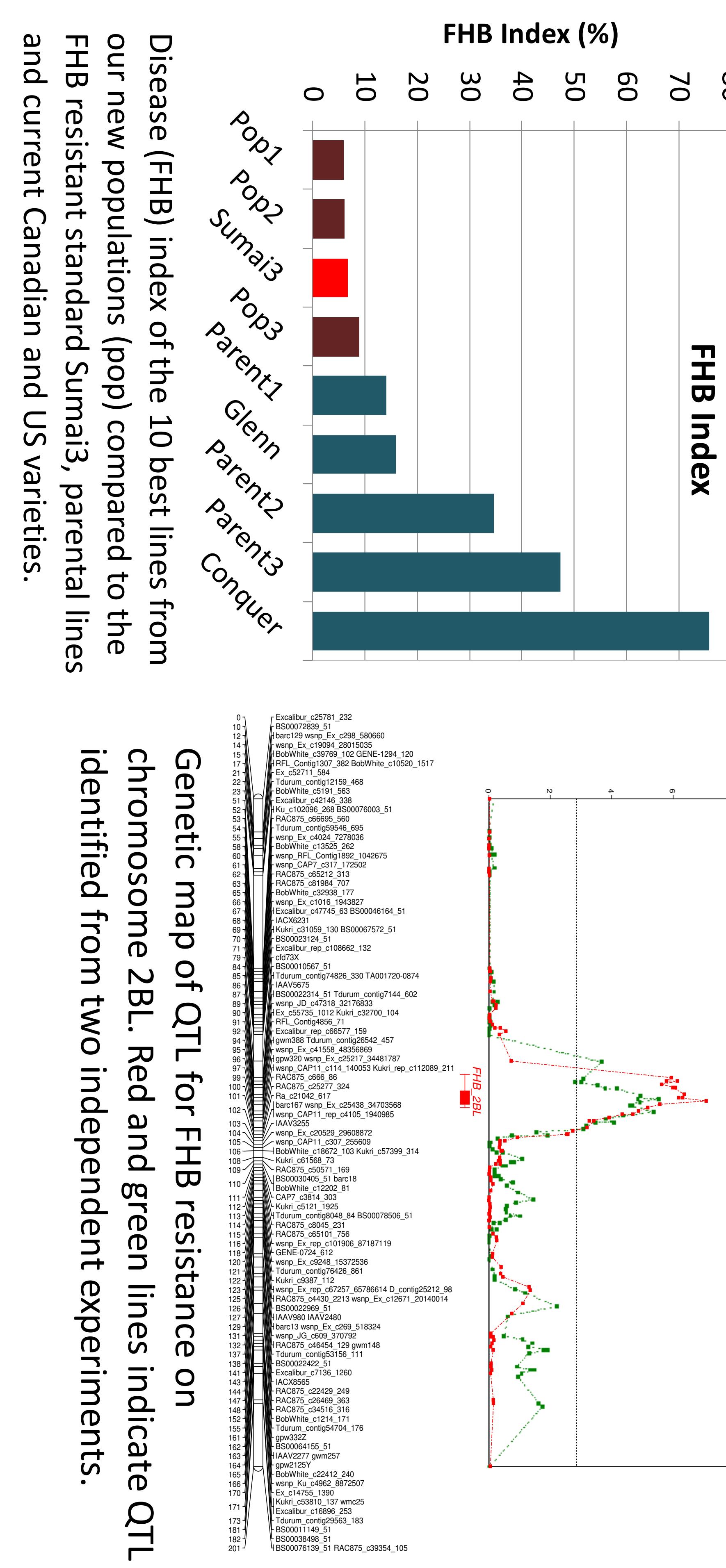
Impact: Introduction of novel sources of resistance into Western Canadian spring wheat, diversifying the genetic base of FHB resistance.

Opportunity for collaboration: fine-mapping FHB QTLs, evaluating the effects of QTL combinations, marker development and validation

Deployment path: FHB resistance germplasm transferred to AAFC partners for evaluation and incorporation into breeding programs.

Delivery date: Germplasm transferred 2016, markers available early 2017

Resources committed: ~\$2 million over 5 years



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