

Heat Tolerance Molecular Breeding Tools in Wheat

Objective: To identify genes associated with heat tolerance, and develop molecular tools for heat stress adaptation breeding

Outputs thus far: Genes (KH) underlying a major heat sensitivity trait in model plant

Wheat transgenic testing lines with KH gene exhibiting extreme heat tolerance

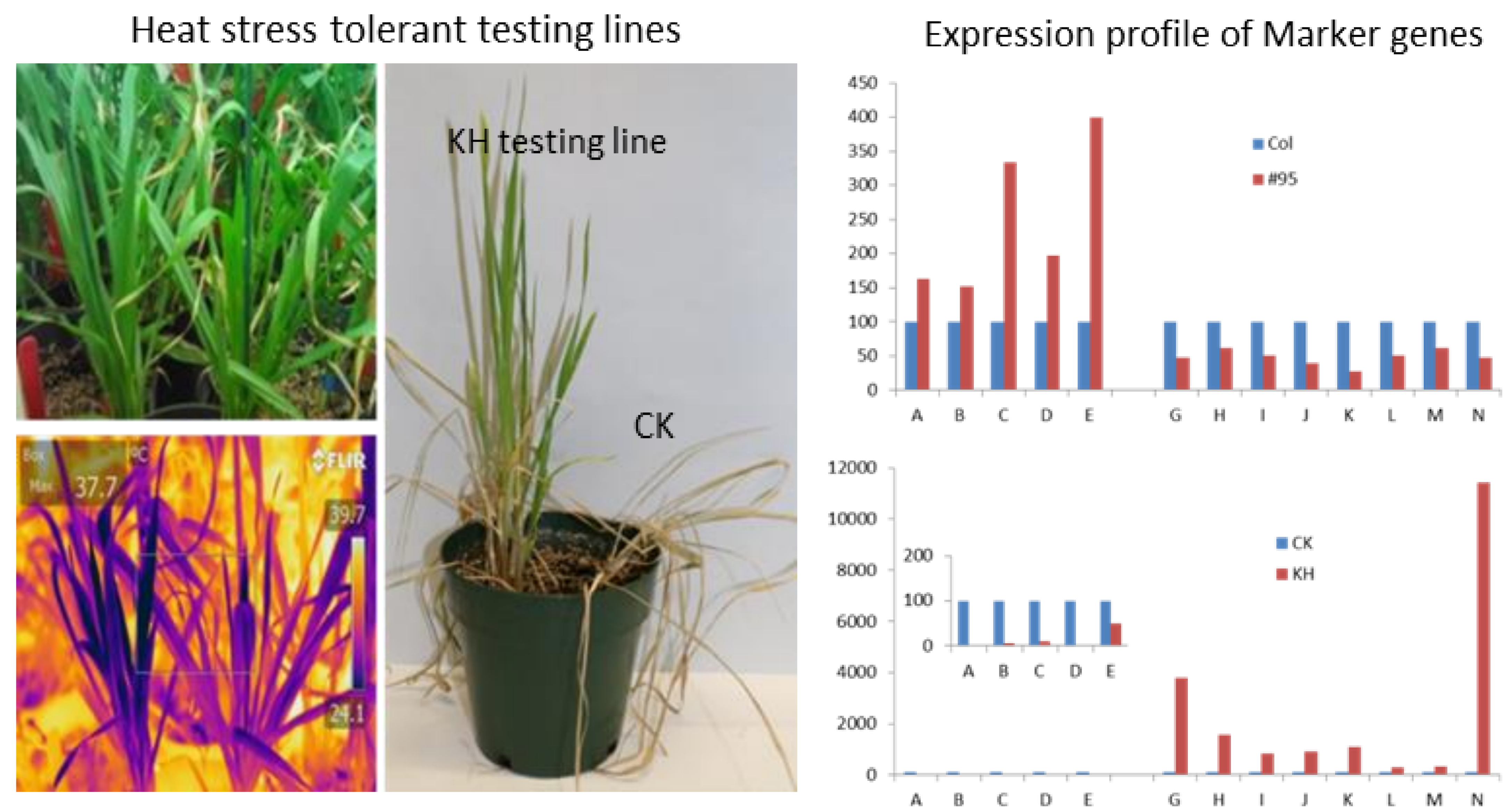
Wheat genes correlated with heat adaptation as diagnostic markers for stress tolerance

Impact: Sustainable agriculture under new challenges from climate change

Deployment path: Molecular assisted breeding

Delivery date: 2020

Resources committed: \$700K / 3 years



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Opportunity for collaboration: Further development of the technology by characterizing the gene involved in heat tolerance and deployment of the technology in breeding programs