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### **New gene targets for drought and WUE in wheat**

Datla, Raju; Wen, Rui; Babic, Vivijan; Venglat, Prakash; Xiang, Daoquan;  
Wang, Edwin; Cuthbert, Richard

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## New Gene Targets for Drought and WUE in Wheat

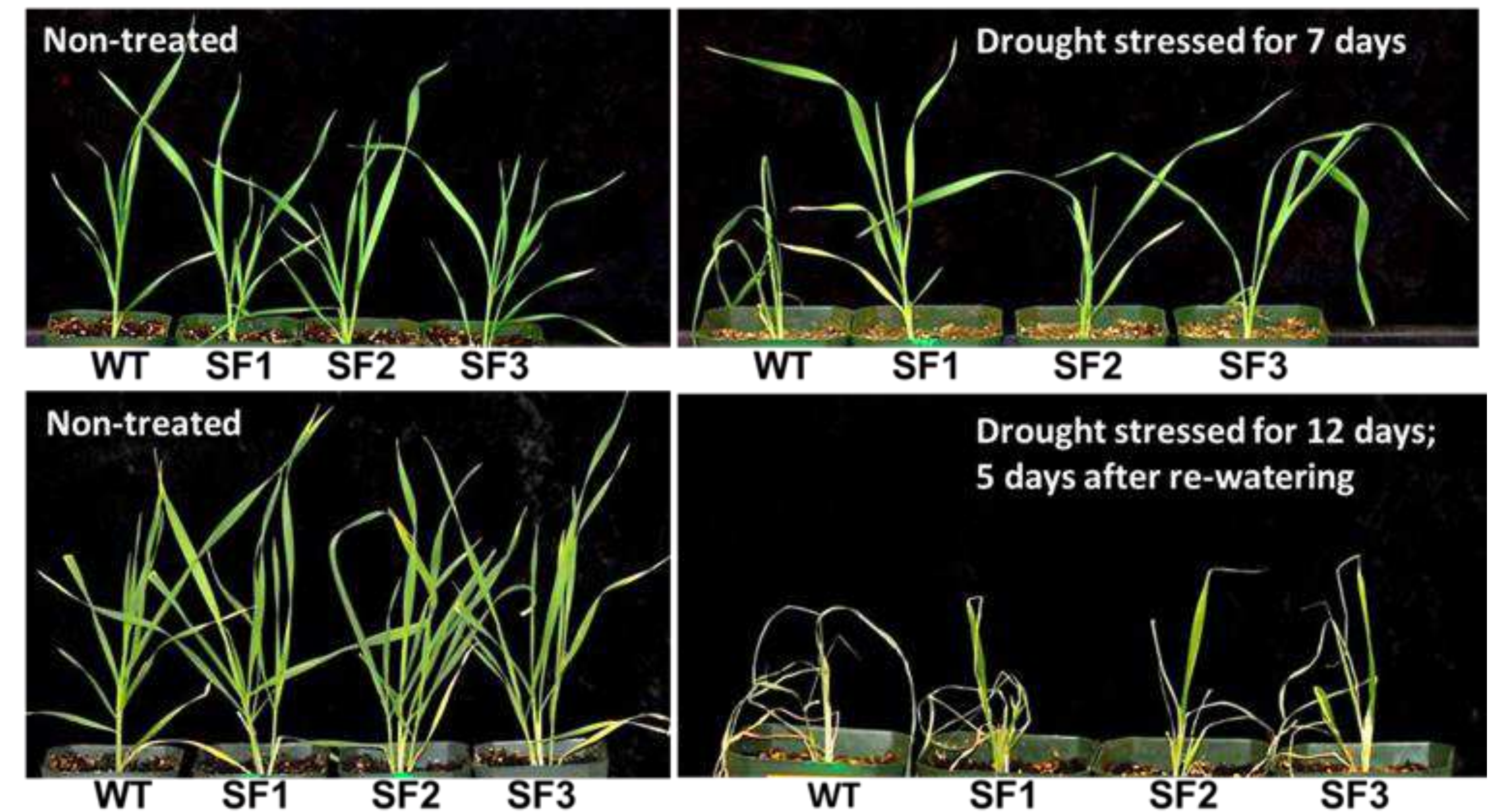
**Objectives:** Discovery of signaling factors (SF) and their functions in drought and WUE (Water Use Efficiency); Develop wheat lines with improved WUE

**Outputs thus far:** Identified SF involved in drought response; Developed wheat lines with SF conferring WUE phenotypes

**Impact:** New targets for improving WUE in wheat

**Deployment path:** Detailed phenotypic, physiological and molecular tools and methods for assessment of WUE lines; Development of prototypes with SF natural alleles for deployment in wheat cultivars

**Delivery date:** Prototype WUE lines by 2019



Development of Signaling Factor (SF) based WUE in wheat lines

**Resources committed:** \$250K/5years

**CWA Team:** NRC: Raju Datla, Rui Wen, Vivijan Babic, Prakash Venglat, Daoquan Xiang, Edwin Wang, AAFC: Richard Cuthbert

**Collaborators:** CIMMYT