

Identification of new genes for drought adaptation in rain-fed sorghum genotype

Terminal drought

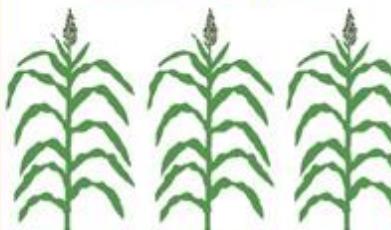
Non-SG



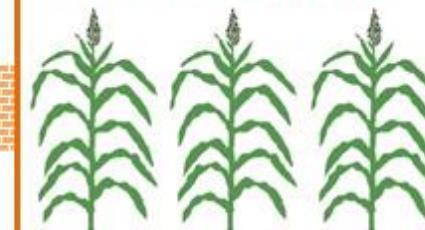
QTL1 QTL2 QTL3 QTL4



USDA SG lines



Rain-fed cultivars



Physiological analyses

- ✓ New genes identified
- ✓ Stay-green mechanism clarified

Genes

- Identification*
- Cloning*
- Characterization*

Genome-wide SNPs detection
(DNA Hi-seq)

Genes Expression Profile
(RNA- seq)



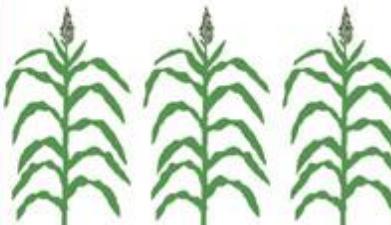
Non-SG



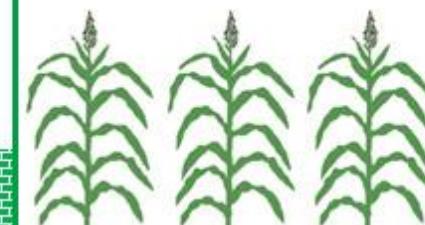
QTL1 QTL2 QTL3 QTL4



USDA SG lines



Sudanese cultivars



Control