

Developing molecular markers for enhancing drought and salt tolerance in alfalfa

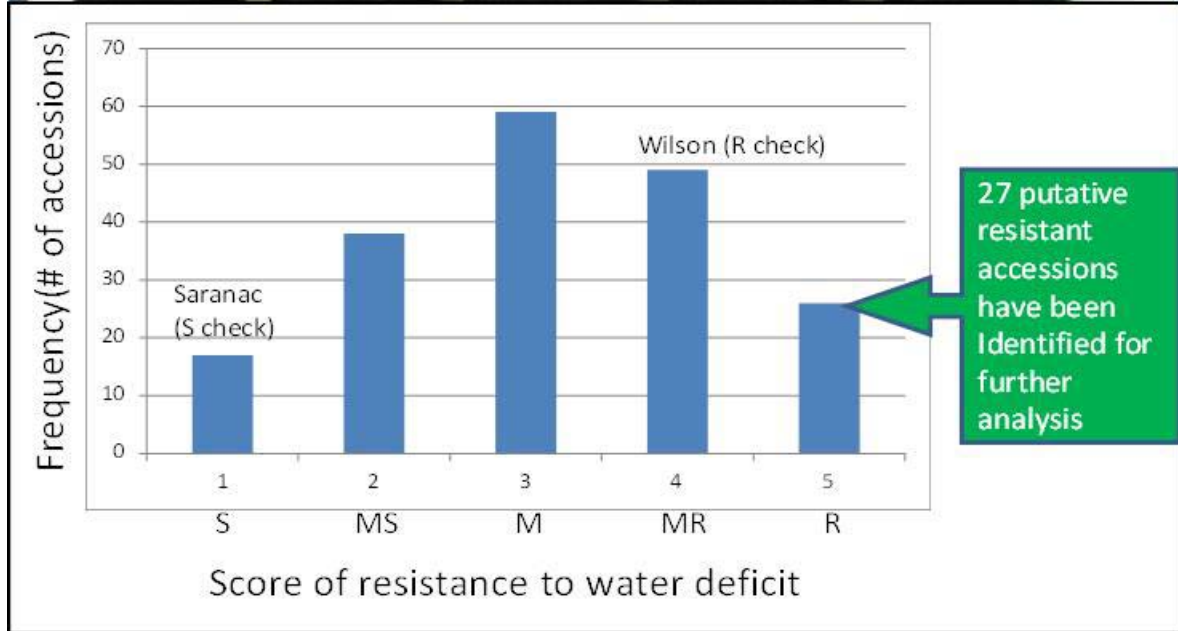
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200 alfalfa accessions have been evaluating for drought tolerance and 27 lines with high resistance score have been identified.



200 alfalfa accessions for drought tolerance have been evaluated in the field and greenhouse in Prosser in 2013 -2016



Field test for salt tolerance is in progress in the Othello farm of WSU

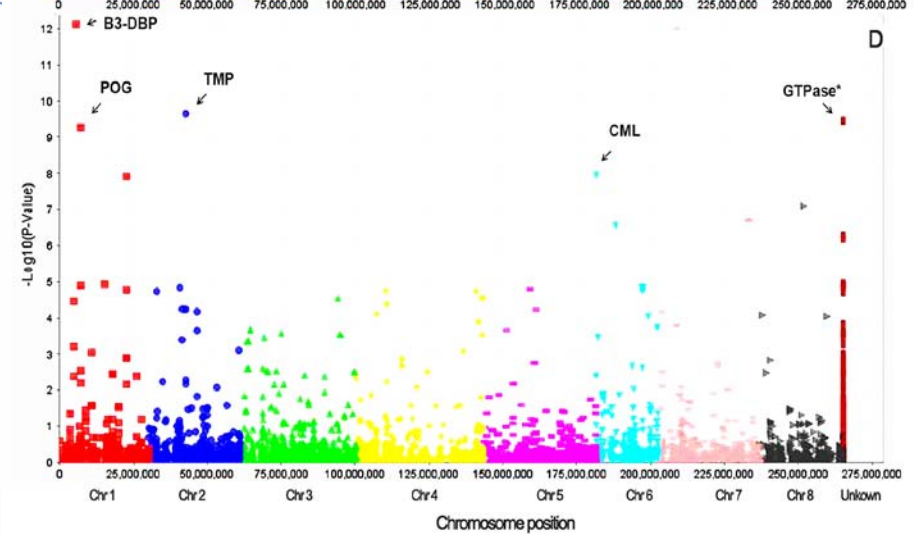
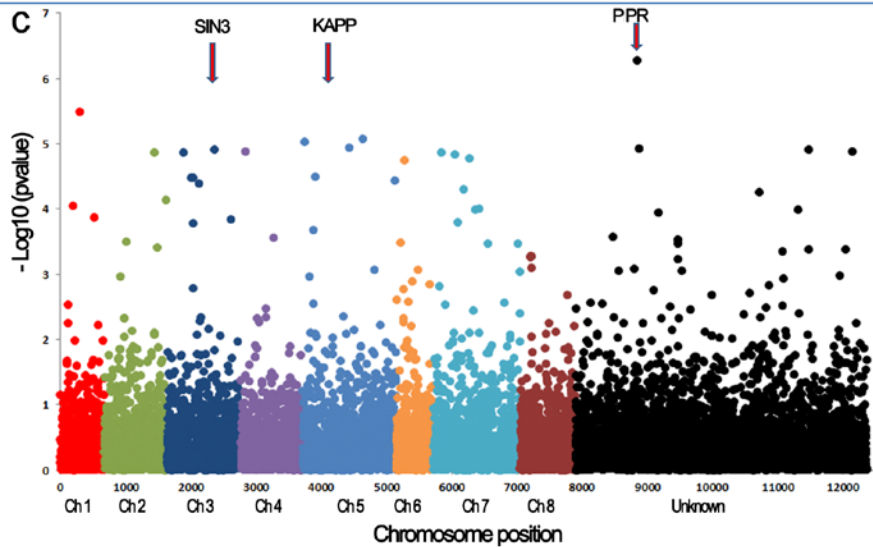
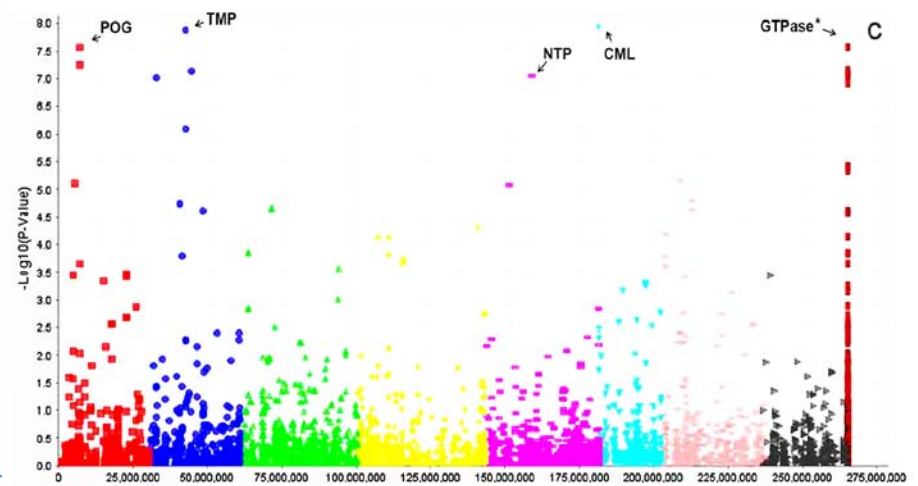
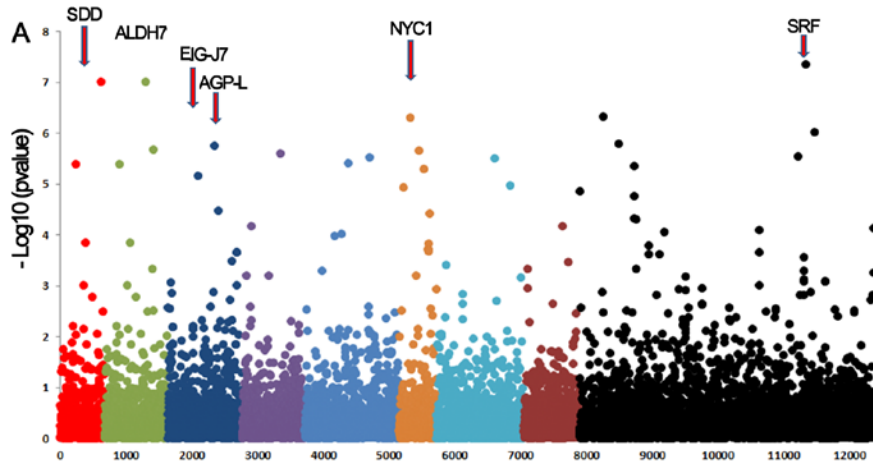


**Breeding populations have been evaluating for salt tolerance
in the CoPI, Dr. Mike Peel's group, Logan, UT**



**Additional populations for drought/salt tolerance are being developing
in Dr. Don Viands' group @ Cornell University, Ithaca, NY**

Markers and linked candidate genes for drought/Salt tolerance identified by GWAS



Drought resistance trait loci

A, DRI; B, RWC

Zhang et al. (2015) PloS One

Salt resistance germination loci

C, 0.75% NaCl; D, 1.0% NaCl

Yu et al. (2016) Frontier Plant Sci.

Acknowledgement

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