

# **Contribution of Alien Germplasm for Fusarium Head Scab Resistance in Wheat. (C01-mujeebkazi111614-Poster)**

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## **Abstract:**

Germplasms categorized under interspecific and intergeneric hybridization are candidates for harnessing new genetic diversity for head scab resistance caused by *Fusarium graminearum*. Within the interspecific area, our emphasis has been on utilizing *Aegilops tauschii* accessions through its derived synthetic hexaploids (SHs); *Triticum turgidum*/Ae. *tauschii*,  $2n=6x=42$ , AABBDD. Based upon multiyear tests in Toluca, Mexico, a sub-set of 36 SHs was formed with each entry possessing a Type II infection level of 15% or less; similar to, or better than the resistant Sumai-3. Evaluations for Type I, III, and IV are conducted by a collaborating group. This resistance level from several synthetics has been transferred to elite but scab susceptible bread wheat cultivars and approximately 150 advanced lines with diverse Ae. *tauschii* accessions are now available for wheat breeding. Few mapping populations have also been produced and distributed for molecular study. A promising response for Type II has further been identified in A and B genome hexaploid stocks and some intergeneric hybrid derivatives which shall enhance genetic diversity further.

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