

A Living Herbarium of Intergeneric Hybrids in CIMMYT: Characterization, Cytogenetics and Maintenance. (C01-mujeebkazi104812-Poster)

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Abstract:

Intergeneric hybrids involving durum and bread wheat cultivars with annual or perennial Triticeae species have been produced by us over the last two decades. The F1 hybrids with the perennial sources are predominantly with the tertiary gene pool species. Cross combination success has varied from less than 1% to as high as 68% and was achieved with unique crossing protocols involving hormone treatments, plus modified embryo regeneration techniques. Currently 188 intergeneric hybrid combinations are maintained. All are cytogenetically validated and phenotyped. Physical cloning is done twice a year, and includes a cytological check to indicate excellent stability. This germplasm provides a continuous base for basic research and a progressive source for producing new amphiploids, novel Phph stocks, to supply collaborators or other programs with BC1 seed structured on their locations adapted wheat cultivars.

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