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- D V G H H S & K D W U D W K 3 D G D U L D National Research Centre on Plant Biotechnology, India

Wheat (Triticum sp.) stands as the second largest staple crop of the world with 17% of the total cultivatable land under wheat production. Global annual wheat production needs to be increased at quantum leaps from the present production of more than 650 million metric tons so as to feed the ever burgeoning world population. Unfortunately, with the changing global climate, various abiotic stresses further hamper the wheat productivity. Development of abiotic stress tolerant cultivars is necessary to achieve the goal of enhanced wheat productivity. With the available gene pool within a species becoming limited, it becomes imperative that we search genes responsible for abiotic stress tolerance across the, genus, species and even kingdom and using rDNA technology transgenic wheat tolerant to abiotic stresses. e present study involved identication of abiotic stress responsive genes from tolerant plant systems represents the genus, species and even kingdom and using rDNA technology transgenic wheat tolerant to abiotic stresses. e present study involved identication of abiotic stress responsive genes from tolerant plant systems represents glaucum, Triticum aestivum, Ziziphus nummulad rosopis cinerariasing Roche 454 and Illumina sequencing platforms. De novo assembly and transcriptome annotations were preformed to have insight about genes, generally and transcriptional factors related to abiotic stress. Further analysis for chamlysy>BDC B(t)-5(ic) 0.5(s)5(t)sa-7./T1_0 1 Tf

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