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Comparative analysis of root transcriptome profiles between drought-tolerant and susceptible wheat genotypes in response to water stress

Running title: Transcriptome response to water stress in wheat

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Highlights

The root transcriptomes of two wheat genotype were examined under PEG treatment

DEGs related to antioxidative and antiosmotic stresses are more induced in JM-262

The feed-in to TCA cycle pathways may enable JM-262 to produce more biomass and energy

JM-262 could develop greater root systems to take up more water than LM-2

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