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Exogenously applied spermidine alleviates photosynthetic inhibition under drought stress in maize (*Zea mays* L.) seedlings associated with changes in endogenous polyamines and phytohormones

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Abbreviations - ABA, abscisic acid; C_a , atmospheric CO₂ concentration; C_i , intracellular CO₂ concentration; Car, carotenoids; Chl a, chlorophyll a; Chl b, chlorophyll b; E , transpiration rate; EBR, 24-epibrassinolide; ETR, electron transport rate; F_m , maximal fluorescence yield of the dark-adapted state; F_v/F_m , maximal quantum yield of PSII photochemistry; GA₃, gibberellin A₃; Gs, stomatal conductance; HPLC, high-performance liquid chromatograph; IAA, indole-3-acetic acid; JA, jasmonate; L_s , stomatal limitation, LSD, least significant difference; LRWC, leaf relative water content; NPQ, non-photochemical quenching; PA, polyamine; P_n , photosynthesis rate; PSII, photosystem II; Put, putrescine; q_p , photochemical quenching coefficient; ROS, reactive oxygen species; SA, salicylic acid; Spd, spermidine; Spm, spermine; WUE, water-use efficiency; ZR, zeatin riboside; Ψ_w , leaf water potential; Φ PSII, effective quantum yield of PSII photochemistry.

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