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Functional Plant Biology

Supplementary Material

Root photosynthesis prevents hypoxia in the epiphytic orchid *Phalaenopsis*

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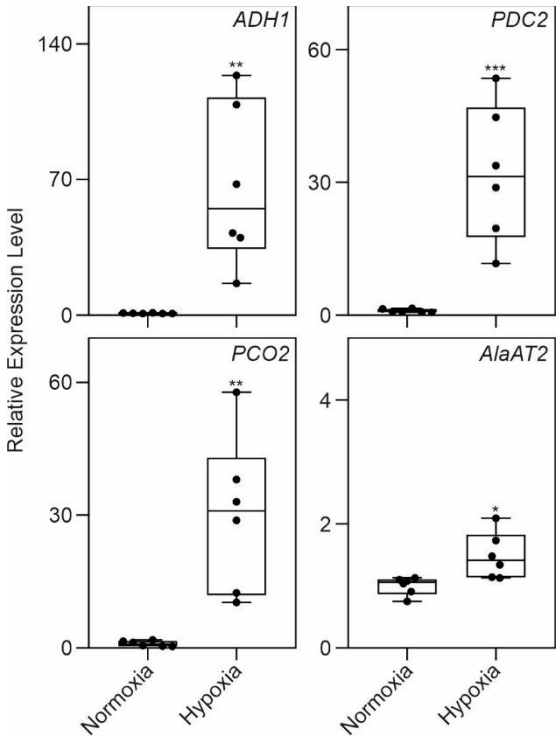
SUPPLEMENTARY DATA



Supplementary Figure S1. Induction pattern of Phalaenopsis HRGs genes in Phalaenopsis roots after a treatment under gaseous hypoxia. Sampling was performed in aerobic condition for control samples and within the hypoxic environment for the treated ones. Lines in the boxes indicate the median, the bottom and top of each box denote the first and third quartile, respectively, the dots represent the single data points and whiskers denote the min/max values. For each analysis the "Normoxia" sample was used as control (value equal to 1). Statistically significant differences are indicated by asterisks (Student t-test, unpaired comparison, * = $p < 0.05$; ** = $p < 0.01$; *** = $p < 0.001$; **** = $p < 0.0001$). Six biological replicates were used for the analysis for each treatment in the analysis. Data are mean ±SD (n=6).

Gene ID	Locus	Sequence 1 (5′-3′)	Sequence 2 (5′-3′)
ACTIN4	LOC110024158	GTATTCCCTAGCATTGTTGGT	CAGAGTGAGAATACCTCGTTTG
ADH1	LOC110030037	GAGCTGGAGAAGTTCATAA	GATAAAAGTCTTCAAGCATCC
PDC2	LOC110023280	TCACGCTTCTTGACCACCTC	TAAAGGTCACGACGCATGCT
PCO2	LOC110031914	AGGTAAGCGGAGGAAGAGGA	ACAAACCCAGCTGTTCCCTC
AlaAT2	LOC110023471	AAGTCCAGCTGTGCACATGA	AGAGAACCACCATGCAGAGC

Table S1. Primers used for gene expression analysis using Real-time quantitative RT-PCR