

Table 1 Suppl. Genes involved in antioxidant metabolism [*superoxide dismutase (sod)*, *catalase (cat 1)*, *ascorbate peroxidase (apx 2)*, *peroxidase (pox)*, *glutathione reductase (gr 1)*, *glutathione-S-transferase (gst 23)*, and *glyceraldehyde-3-phosphate dehydrogenase (gapdh)*], and their primer sequences, analyzed by reverse transcription quantitative PCR.

Target genes	Foward primer sequences (5' to 3')	Reverse primer sequences (3' to 5')
<i>sod</i>	TGTCACTGGAAGTGCTCTG	CGCAGGATTGTAGTCGTGTC
<i>cat 1</i>	GATGGGTTGACGCACTGACA	AGATCCAAATGGTACGGTGTTCA
<i>apx 2</i>	CTCAGGCAGGTTTTCTCCAC	AATCCAGACCTGTCCTTGTC
<i>pox</i>	AGCAGTGAGCTCAGTACACA	GCCGTTAGCTTGCTTTCCCTT
<i>gr 1</i>	AAGCTGGATTGACGAAGCAA	TTTCTAGTCGGGCTCCTCA
<i>gst 23</i>	GGCTAGTAATTCTGGAGCAGCTAGT	GCAAAAGTGCAACCAGTCCTTA
<i>gapdh</i>	AAGCCGGTCACCGTCTTT	CATCTTTGCTTGGGGCAGA

Table 2 Suppl. Analysis of variance of the effects of sampling times (ST), plant inoculation (PI), and interaction ST $\times$ PI on the activities of superoxide dismutase (SOD), catalase (CAT), ascorbate peroxidase (APX), peroxidase (POX), glutathione reductase (GR), glutathione-S-transferase (GST), and glutathione peroxidase (GPX), the content of hydrogen peroxide (H₂O₂), malondialdehyde (MDA), as well as electrolyte leakage (EL). ^a - Levels of probability: ^{ns} = non-significant, * = 0.05 and ** = 0.01.

Variables	<i>F</i> values ^a		
	ST	PI	ST $\times$ PI
SOD	6.91**	36.51**	2.22 ^{ns}
CAT	2.99*	10.43**	0.46 ^{ns}
APX	6.01*	76.12**	7.04**
POX	5.83**	58.99**	2.61 ^{ns}
GR	5.69**	29.88**	1.72 ^{ns}
GST	0.84 ^{ns}	14.49**	1.77 ^{ns}
GPX	9.80**	9.78**	2.38 ^{ns}
H ₂ O ₂	2.21 ^{ns}	6.28*	1.22 ^{ns}
MDA	1.61 ^{ns}	21.89**	2.04 ^{ns}
EL	4.85**	61.62**	8.47**

Table 3 Suppl. Analysis of variance of the effects of plant inoculation (PI), sampling time (ST), and interaction PI $\times$ ST on net photosynthetic rate (P_N), stomatal conductance to water vapor (g_s), transpiration rate (E), internal CO₂ concentration (C_i), maximum quantum yield of photosystem II (PS II) (F_v/F_m), effective quantum yield of PS II (F_v'/F_m'), quantum yield of regulated energy dissipation NPQ, quantum yield of non-regulated energy dissipation Y(NO), and content of chlorophyll Chl *a*, Chl *b*, and carotenoids (CAR). ^a - Levels of probability: ^{ns} = non-significant, * = 0.05 and ** = 0.01.

Variables	<i>F</i> values ^a		
	ST	PI	ST $\times$ PI
A	100**	849.23**	79.23**
g _s	71.05**	411.82**	10.59**
E	11.19**	197.54**	24.29 ^{ns}
C _i	101.83**	44.88**	54.29 ^{ns}
F _v /F _m	3.9**	56.90**	18.19**
F _v '/F _m '	21.79**	28.80**	5.79*
NPQ	14.15**	27.42**	5.99**
Y(NO)	22.40**	57.99**	29.13**
Chl <i>a</i>	16.66**	51.81**	13.64**
Chl <i>b</i>	4.38*	31.54**	16.42**
CAR	18.08**	50.56**	8.83**

Table 4 Suppl. Pearson correlation coefficients among northern leaf blight severity (Sev), net photosynthetic rate (P_N), stomatal conductance to water vapor (g_s), transpiration rate (E), internal CO₂ concentration (c_i), maximum quantum yield of photosystem (PS) II (F_v/F_m), effective quantum yield of PS II (F_v'/F_m'), quantum yield of regulated energy dissipation (NPQ), quantum yield of non-regulated energy dissipation Y(NO), as well as content of chlorophyll (Chl) *a*, Chl *b*, and carotenoids (CAR). ^a - Levels of probability: ^{ns} = non-significant, * = 0.05 and ** = 0.01.

[illegible]

Table 5 Suppl. Pearson correlation coefficients among northern leaf blight severity (Sev), activities of superoxide dismutase (SOD), catalase (CAT), ascorbate peroxidase (APX), peroxidase (POX), glutathione reductase (GR), glutathione-S-transferase (GST), and glutathione peroxidase (GPX), content of hydrogen peroxide (H₂O₂) and malondialdehyde (MDA), as well as electrolyte leakage (EL).
^a - Levels of probability: ^{ns} = non-significant, * = 0.05 and ** = 0.01.

[illegible]

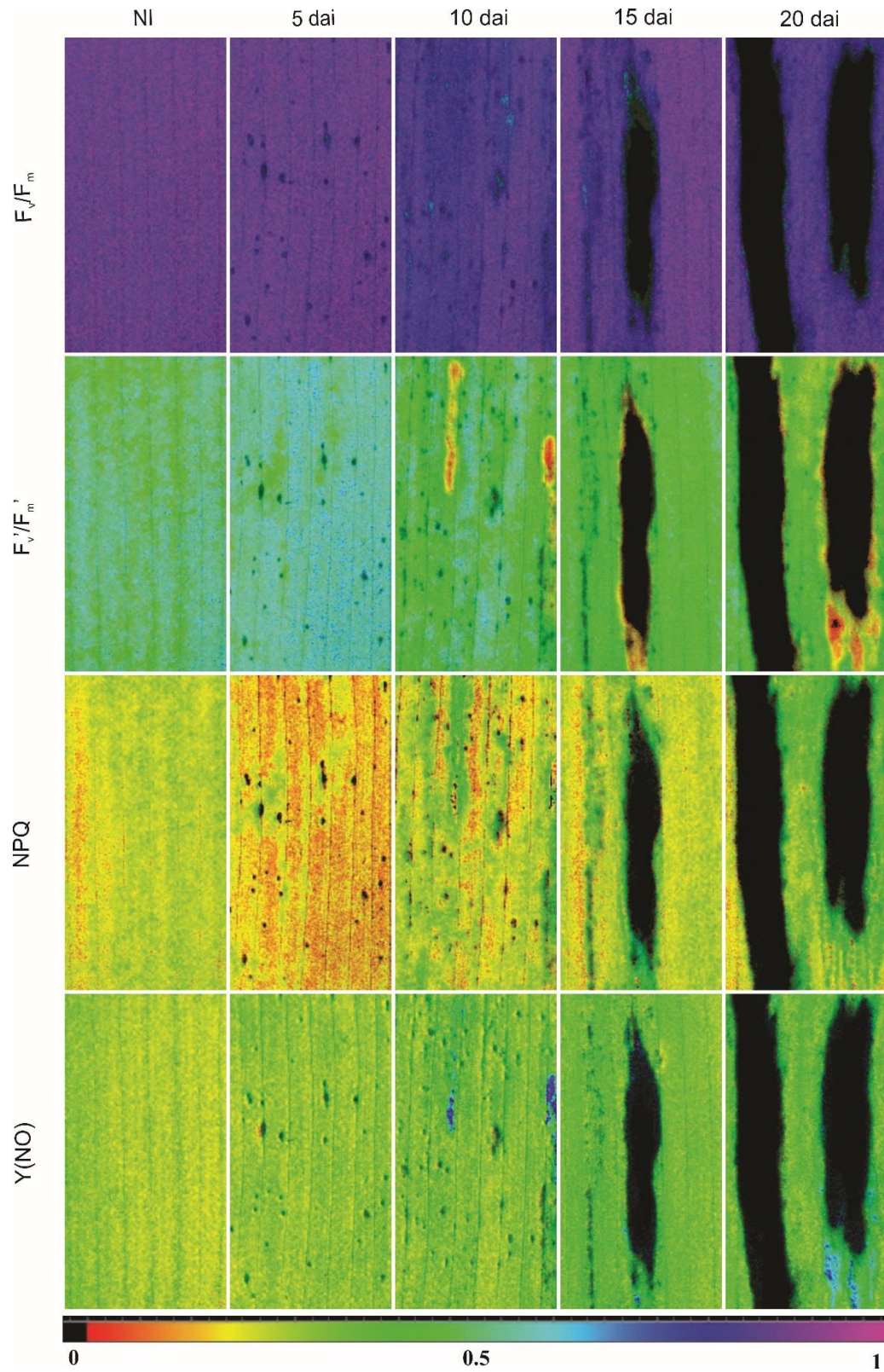


Fig. 1 Suppl. Images of chlorophyll *a* fluorescence parameters: maximum quantum yield of photosystem II (F_v/F_m), effective quantum yield of photosystem II (F_v'/F_m'), quantum yield of regulated energy dissipation (NPQ), and quantum yield of non-regulated energy dissipation $Y(NO)$ obtained from leaves of maize plants either non-inoculated (NI) or at 5, 10, 15, and 20 d after inoculation (dai) with *Exserohilum turcicum*.