



Article

Nitric Oxide Is Required for Melatonin-Enhanced Tolerance against Salinity Stress in Rapeseed (*Brassica napus* L.) Seedlings

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Supplementary Table 1 The sequences of primers for qPCR used in rapeseed.

Primer name	Accession number	Sequence (5'→3')
<i>Actin</i>	AF111812	F: CTGACCGTATGAGCAAAG R: CCACCGAACCAGAAGGCAGA
<i>GAPDH</i>	FJ529282	F: TTGGTGACAACAGGTCAAGCA R: AAACCTGTCGCTCAATGCAATC
<i>NHX1</i>	AY189676	F: CAATGCAGGGTTTCAAGTA R: AGTCAAAGGTCCCAATGTC
<i>SOS2</i>	AY310413	F: CCAGAGGTACTTAATGGCCAAG R: GTGGCCTTGACTGAACAATGTA
<i>APX</i>	HE574697	F: GAGAAATACGCTGCTGATGAAGA R: CCTACCCGAGCTCAGAAAGC
<i>MnSOD</i>	EF634058	F: TTGGTTCCTCTGGTGGGTATAGA R: CAGATAATCCGGCCTCACATTC
<i>Cu/ZnSOD</i>	AY970822	F: CCAACGTCCACGCTGATAAGA R: ACAGGTCCTATAGCCGTTGCA

Supplementary Table 2 The sequences of primers for qPCR used in Arabidopsis.

Primer name	Accession number	Sequence (5'→3')
<i>Actin 2</i>	At3g18780	F: ACAACCGGTATTGTGCTGGA R: GAAGACGGAGGATGGCATGA
<i>GAPDH</i>	At1g13440	F: TTGGTGACAACAGGTCAAGCA R: AAACCTGTCGCTCAATGCAATC
<i>SOS1</i>	At2g01980	F: TGCTTGATGAGGGCAGAATA R: ACTTGCGTGGGACAACCTTTA
<i>SOS2</i>	At5g35410	F: TAGCGGAGAATGTAGAGAGAAAT R: TGCTGTCGCTGTCAAATAG
<i>SOS3</i>	At5g24270	F: TGATTGAAGTAATGGTGGATAAGGC R: AGTCATGTTCTTGATGAGCGATG
<i>APX1</i>	At1g07890	F: CTCTGGGACGATGCCACAAG R: CTCGACCAAAGGACGGAAAA
<i>APX2</i>	At3g09640	F: GTTCAGGATTCGAGGGTGC R: GAAGAGCCTTGTCGGTTGGT
<i>CAT</i>	At1g20630	F: TTCCTGTATTCTTCGTCGG R: GCCTTCCATGTGCCCTGTAGT
<i>FSD1</i>	At495100	F: AACCAGGTGGTGGAGGAA R: GTAAGCAATGGGAAAGAGCC

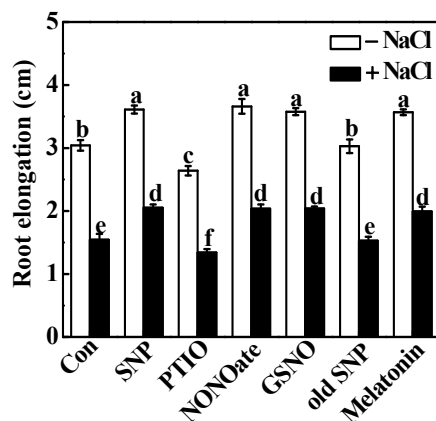


Figure S1. NaCl-induced inhibition of root elongation was rescued by three types of NO-releasing compounds, but aggravated by the scavenger of NO. Three-day-old rapeseed seedlings were pretreated with 10 μ M SNP, 200 μ M 2-phenyl-4,4,5,5-tetramethylimidazole-1-oxyl-3-oxide (PTIO; a scavenger of NO), 10 μ M diethylamine NONOate (NONOate; a NO donor), 10 μ M *S*-nitrosoglutathione (GSNO; a NO donor), 200 μ M old SNP (a negative control of SNP), and 1 μ M melatonin for 12 h, and then transferred to 200 mM NaCl for another 2 d. Afterwards, root elongation was measured. The sample without pretreatment was the control (Con). Values are mean \pm SE of three independent experiments with at least three replicates for each. Bars with different letters are significant different at $p < 0.05$ according to Duncan's multiple range test.