

Supplemental Table S1: MGRL medium composition.

Nutrients/Chemicals	MGRL/7mM NO ₃ ⁻	MGRL/0.25 mM NO ₃ ⁻	MGRL/0 mM NO ₃ ⁻
KNO ₃	3 mM	0.11 mM	NA
Ca(NO ₃) ₂ ·5H ₂ O	2 mM	0.07 mM	NA
KCl	NA	2.89 mM	3 mM
CaCl ₂ ·2H ₂ O	NA	1.93 mM	2 mM
Na ₂ HPO ₄ ·7H ₂ O (pH=5.8)	85.3 μM	85.3 μM	85.3 μM
NaH ₂ PO ₄ ·H ₂ O (pH=5.8)	1.67 mM	1.67 mM	1.67 mM
MgSO ₄ ·7H ₂ O	1.5 mM	1.5 mM	1.5 mM
Na ₂ -EDTA·2H ₂ O	67 μM	67 μM	67 μM
H ₃ BO ₃	30 μM	30 μM	30 μM
MnSO ₄ ·7H ₂ O	10.3 μM	10.3 μM	10.3 μM
FeSO ₄ ·7H ₂ O	8.6 μM	8.6 μM	8.6 μM
CuSO ₄ ·5H ₂ O	1 μM	1 μM	1 μM
CoCl ₂ ·6H ₂ O	130 nM	130 nM	130 nM
(NH ₄) ₆ Mo ₇ O ₂₄ ·4H ₂ O	24 nM	24 nM	24 nM
ZnSO ₄ ·7H ₂ O	1 μM	1 μM	1 μM
Sucrose	1.0% w/v	1.0% w/v	1.0% w/v
Gelrite™	0.5% w/v	0.5% w/v	0.5% w/v

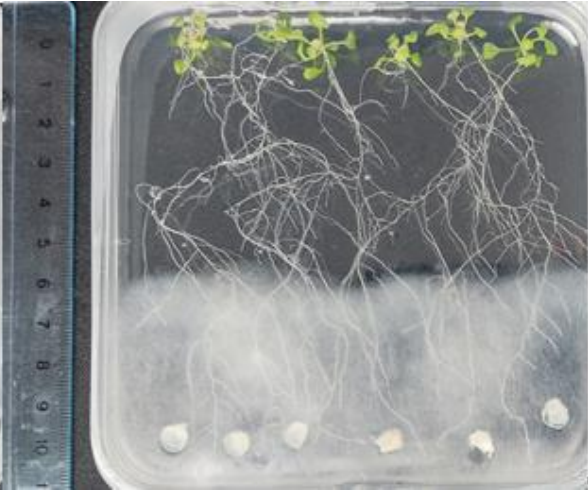
Supplemental Table S2: Oligonucleotides used for quantitative RT-PCR.

Primer name	Sequence 5' → 3'	Targets
AtNRT2.4 forward	CAGTTCCTTCCGACTCATCA	AT5G60770
AtNRT2.4 reverse	GCAACACCAGCATTTCGAC	AT5G60770
AtNRT2.5 forward	CTCCTCCCTGTTATCCGTGAAA	AT1G12940
AtNRT2.5 reverse	AGACGAAAGTGGCGAGAGAGAA	AT1G12940
AtActin 2 forward	GGAATCCACGAGACAACCTA	AT3G18780
AtActin 2 reverse	ATCTTCATGCTGCTTGGTGC	AT3G18780

A1



B1



A2

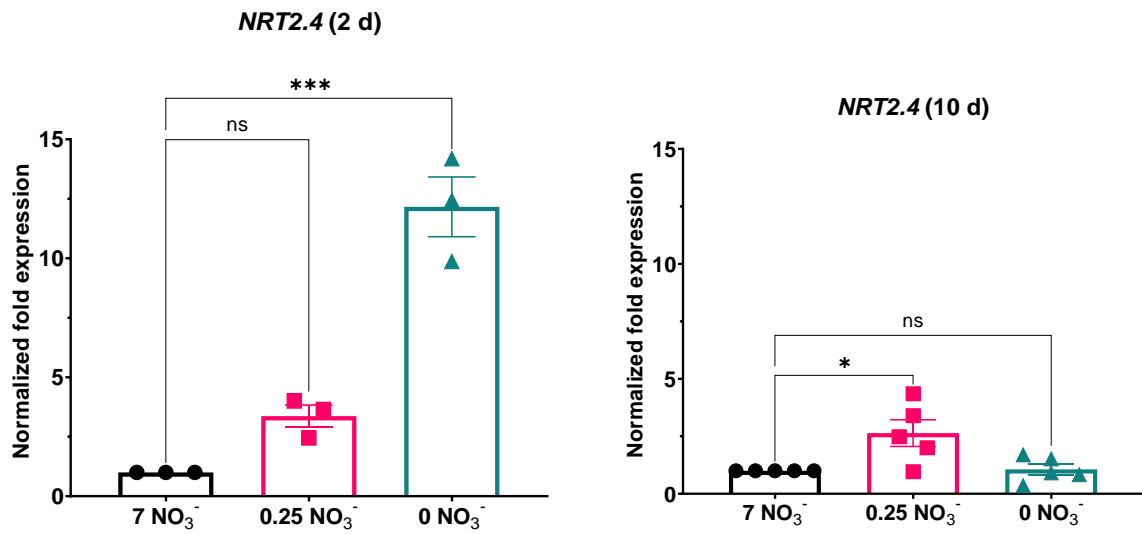


B2

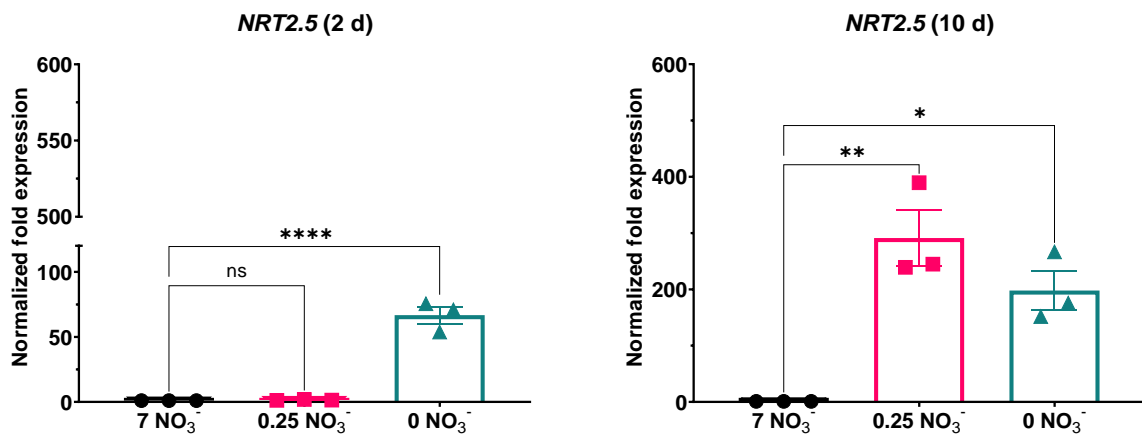


Supplemental Figure S1. Co-cultivation of *Arabidopsis thaliana* Col-0 plants with *Mortierella hyalina*: 20-day-old-plants (6 day after co-cultivation) growth on MGRL medium containing 7mM (A1, B1) or 0 mM (A2, B2) NO_3^- . Control plants (A), co-cultivated with *M. hyalina* (B); see control and fungal plugs at the bottom.

A



B



Supplemental Figure S2. *NRT2.4* (A) and *NRT2.5* (B) expression in roots of *Arabidopsis thaliana* WT. Two-weeks-old seedlings pre-grown on full NO₃⁻ (7 mM NO₃⁻) medium were further incubated on different NO₃⁻ medium (N-free, 0 mM NO₃⁻; N-low, 0.25 mM NO₃⁻; or N-complete, 7 mM NO₃⁻). One-way ANOVA with Dunnett's multiple comparisons test; the error bars indicate standard error of the mean (SEM); (n = 3–5); *P<0.05; **P<0.01; *** P<0.001; **** P<0.0001; ns: not significant.