

Pathogenicity of the root lesion nematode *Pratylenchus neglectus* depends on pre-culture conditions

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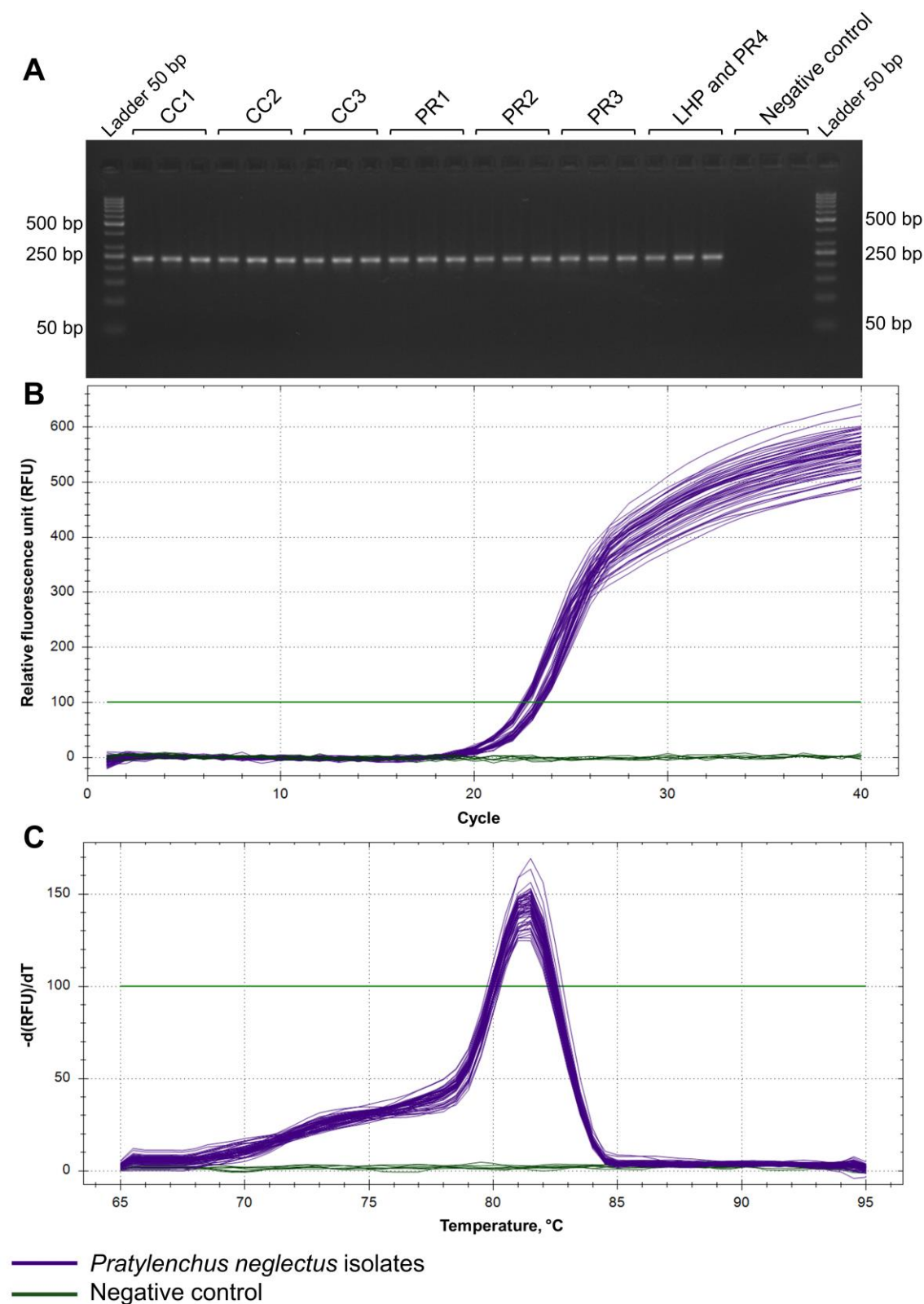
Supplementary data

Supplementary tables

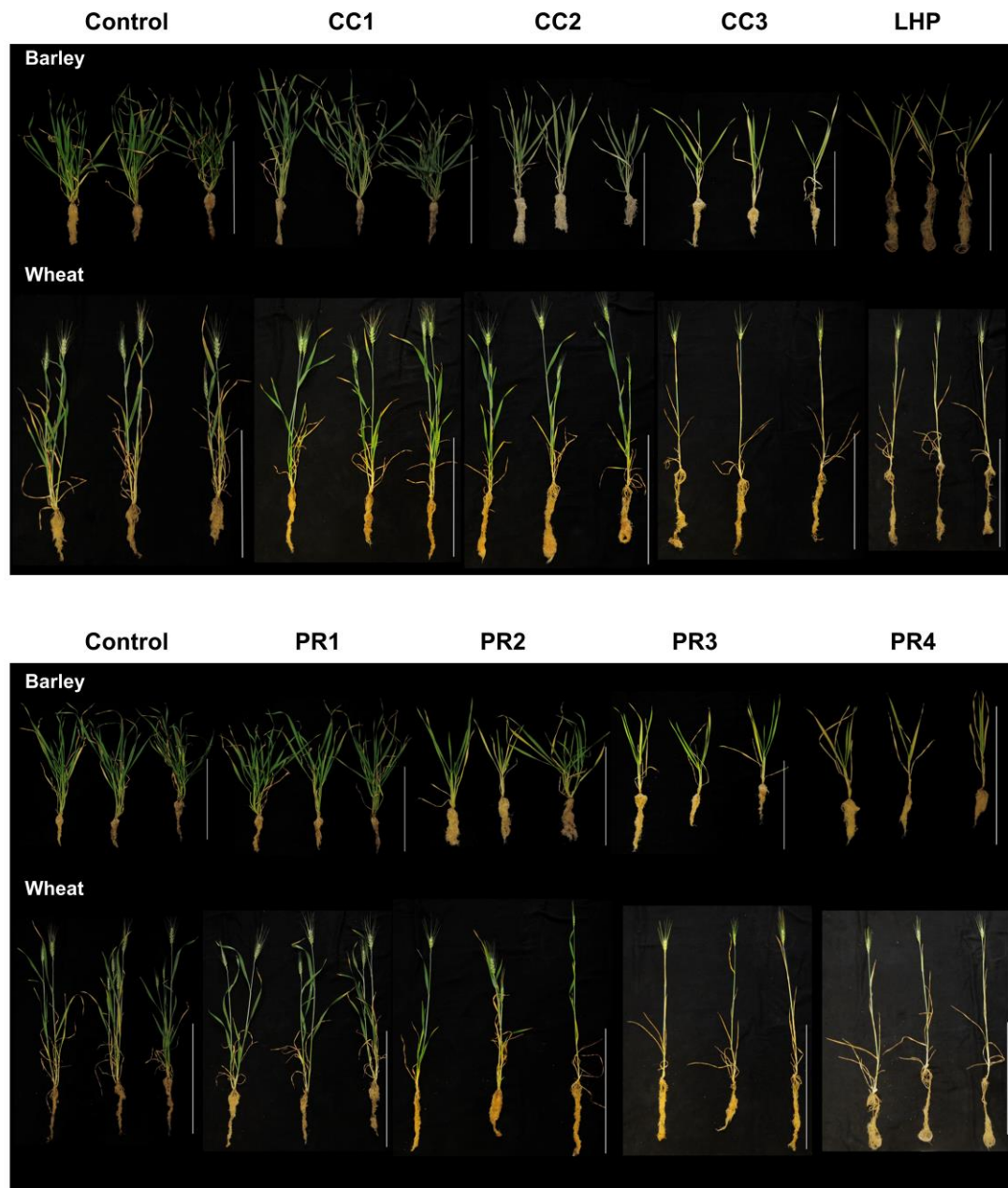
Nematode isolates	Pre-cultivation on host plant/tissue	Weeks of pre-cultivation	Host plant inoculated	Total number of inoculated host plants
CC1	Carrot callus	>96	Barley and wheat	60
CC2	Carrot callus	96	Barley and wheat	60
CC3	Carrot callus	48	Barley and wheat	60
LHP	Barley and Wheat	48	Barley and wheat	60
PR1	CC1 on barley and wheat	8 weeks	Barley and wheat	60
PR2	CC2 on barley and wheat	8 weeks	Barley and wheat	60
PR3	CC3 on barley and wheat	8 weeks	Barley and wheat	60
PR4	LHP on barley and wheat	8 weeks	Barley and wheat	60

Supplementary Table 1: The origin of nematode isolates used in this study. The susceptible barley and wheat varieties Valentina and Machete served as host plants, respectively. The experiments were performed twice, with 30 barley and wheat plants. Ten days after sowing, the plants were inoculated with 1000 *P. neglectus* nematodes (Pi) and grown in the greenhouse under long-day conditions (16 hours of light) at 23°C during the day and 18°C at night. The plants were harvested eight weeks after inoculation. Non-inoculated barley and wheat plants served as controls (Figure 1).

Supplementary figures



Supplementary Figure 1: PCR and RT-qPCR results with total DNA of cereal plants inoculated with different *P. neglectus* isolates. The primer combination Neg1 was used (Fatemi et al. 2023). (A) Agarose gel electrophoresis (3%, 80V for 60 minutes) with PCR fragments amplified with DNA from different isolates. (B) RT-qPCR amplification curves for seven *P. neglectus* isolates. (C) The melting curve peak of the *P. neglectus*-specific amplicons is at 81.5°C. All samples were analyzed using three technical replicates.



Supplementary Figure 2: Barley and wheat plants from the greenhouse experiment eight weeks after inoculation. Roots were harvested ten weeks after sowing. Plants were infected with 1000 nematodes from different *P. neglectus* isolates. Scale bar: 30 cm.