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Verticillium dahliae
Meloidogyne javanica

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Verticillium dahliae
Meloidogyne javanica

Verticillium dahliae

Meloidogyne javanica

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Verticillium dahliae *Meloidogyne javanica* :

V. dahliae

(Ruggieri, 1946)

مقدمه

Verticillium dahliae Klebahn

V. dahliae

(Rahnama *et al.*, 1998)

M. javanica

(*Meloidogyne* spp.)

M. javanica *V. dahliae*

Meloidogyne javanica

(Treub) Chitwood

(Akhiani *et al.*, 1984; Jepson, 1987)

V. dahliae

V. dahliae

) *V. dahliae*

(Devay *et al.*, 1997; Ogallo & McClure, 1996)

(SS-4

V. dahliae

(Bower *et al.*, 1996)

V. dahliae

PDA

Meloidogyne

(Hassan, 1993; Prot, 1993)

(Cobb) Filipjev *V. dahliae*

Pratylenchus penetrans & Schuuman stekhoven

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(1992) Hilloks

PDA

(Bower *et al.*, 1996;

Riedel *et al.*, 1985; MacGuidwin & Rouse, 1990)

(2000) Rahman *et al.*

(Bhat & Subbarao, 1999; Khan *et al.*, 2000)

Fusarium solani (Mart.)

M. javanica

Fusarium oxysporum Schlechtend Appel & Wr.

M. javanica

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(Khan *et al.*, 2000)

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(Khan *et al.*, 2000)

M. javanica

M. javanica (Devay *et al.*, 1973)

V. dahliae

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(De Grisse, 1969) PDA (

M. javanica

M. javanica

(1991) Nickle (1987) Jepson

(Rutgers)

(1973) Hussey & Barker

(propagule)

× × × ×

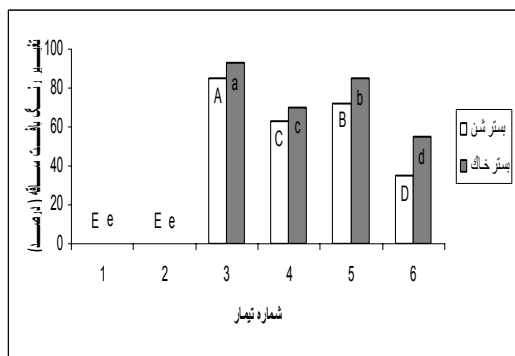
PDA

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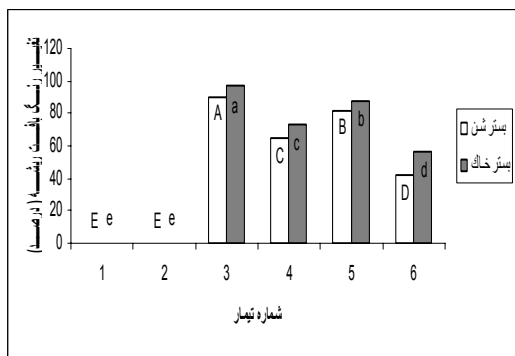
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V. dahliae



V. dahliae



M. javanica

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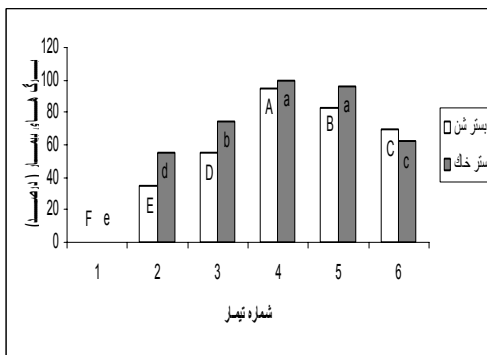
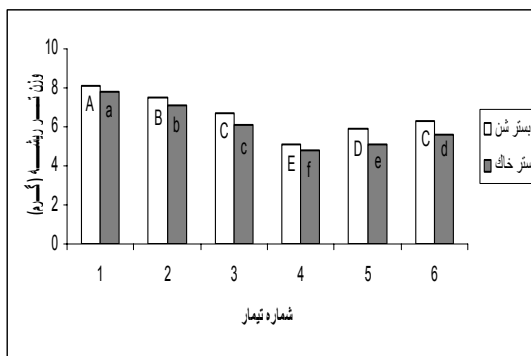
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(Schnathorst, 1981)

(1983) Fattah & Webster

M. javanica

Fusarium oxysporum f.sp. *lycopersici* (Sacc.) Wr.

(Riedel *et al.*, 1985; *M. javanica*
Mai & Abawi, 1987; MacGuidwin & Rouse, 1990;
Kroon & Elgersma, 1993; Bower *et al.*, 1996;
.Devay *et al.*, 1997; Rahamn *et al.*, 2000;)

V. dahliae

M. javanica

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V. dahliae

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(Fattah & Webster, 1983)

(1987) Mai & Abawi

DNA RNA

(giant cell)

V. dahliae

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M. javanica

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(1983) Ribeiro & Hagedorn

V. dahliae

F. oxysporum f.sp.

phaseoli Kendric & Synder

M. javanica

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(1991) Khan & Hosseini-Nejad

M. javanica

F. oxysporum f.sp. *ciceri* (Padwick) Synder & Hansen

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