

()

Gibberella intermedia

دانشیار * استادیار
(/ / : / / :)

(*Fusarium proliferatum*) *Gibberella intermedia*

() *nit*

crn

nit

nit 1

VCG29 VCG1

crn

nit

Fusarium proliferatum :

(Desjardins *et al.*,

:) *G. intermedia* (2005) Alian .2000)

:) *G. fujikuroi* (*Fusarium proliferatum* (bakanae) (foot rot)

:) *G. moniliformis* (*F. fujikuroi*
(*F.verticillioides*

G. intermedia

(Mew & Misra, 1994)

nit (Leslie, 1993)

() MM PDA (VCGs)

(KClO₃)

(MMC) ()

] PDC

PDA [(KClO₃)

± °C

(Puhalla, 1981)

(Alian *et al.*, 2006)

nit MM

MM (Puhalla, 1981)

nit (Puhalla, 1981)

(vegetative incompatibility) *vic*

() ()

nit

°C

(Correll, 1987) *G. intermedia*

nit

(Correll *et al.*, 1986) (HIS)

nit (Alian, 2005)

MM *F. proliferatum*

تشخيص

Gibberella intermedia

	F1
	F2
	F3
	F4
	F5
	F6
	F7
	F8
	F9
	F10
	F11
	F12
	F13
	F14
	F15
	F16
	F17
	F18
	F19
	F20
	F21
	F22
	F23
()	F24
	F25
	F26
	F27
	F28
	F29

() *Fusarium nit*

<i>Fusarium</i>	<i>nit</i>			
<i>Nit1</i>	+	+	+	+
<i>Nit3</i>	+		+	+
() NitM	+	+		+

°C MM

nit

± °C

MM

MM

Nit

nit

nit 3 nit 1

M

MMC

nit

nit

MMC

MM

nit ± °C

crn

(Klittich & Leslie, 1989)

MM

nit

nit

nit1

nit

(Desjardins *et al.*, 2000) *nit*

	<i>nit1</i>	<i>nit3</i>	NitM
<i>nit1</i>		+ /	+
<i>nit3</i>	+ /		+
NitM	+	+	+ /

nit

nit

Gibberella intermedia

MM

nit

()

nit

(HSC)

nit

nit 1) A

(Nit M *nit 3*) B (*nit 3*)

	B	A	
VP4	Nit M	<i>nit 1</i>	F1
VP5	Nit M	<i>nit 1</i>	F2
VP2	Nit M	<i>nit 1</i>	F3
VP6	Nit M	<i>nit 1</i>	F4
VP7	<i>nit 3</i>	<i>nit 1</i>	F5
VP8	<i>nit 3</i>	<i>nit 1</i>	F6
VP1	<i>nit 3</i>	<i>nit 1</i>	F7
VP9	Nit M	<i>nit 1</i>	F8
VP1	<i>nit 3</i>	<i>nit 1</i>	F9
VP10	Nit M	<i>nit 1</i>	F10
VP11	Nit M	<i>nit 1</i>	F11
VP12	Nit M	<i>nit 1</i>	F12
VP2	Nit M	<i>nit 1</i>	F13
VP13	<i>nit 3</i>	<i>nit 1</i>	F14
VP14	Nit M	<i>nit 1</i>	F15
VP15	Nit M	<i>nit 1</i>	F16
VP3	Nit M	<i>nit 1</i>	F17
VP3	Nit M	<i>nit 1</i>	F18
VP16	Nit M	<i>nit 1</i>	F19
VP17	Nit M	<i>nit 1</i>	F20
VP18	Nit M	<i>nit 1</i>	F21
VP19	Nit M	<i>nit 1</i>	F22
VP20	Nit M	<i>nit 1</i>	F23
VP21	Nit M	<i>nit 1</i>	F24
VP22	Nit M	<i>nit 1</i>	F25
VP23	Nit M	<i>nit 1</i>	F26
VP24	Nit M	<i>nit 1</i>	F27
VP25	Nit M	<i>nit 1</i>	F28
VP26	Nit M	<i>nit 1</i>	F29

VP3 B A nit ()
A B nit
VP1 VP2 *F. proliferatum* ()
()



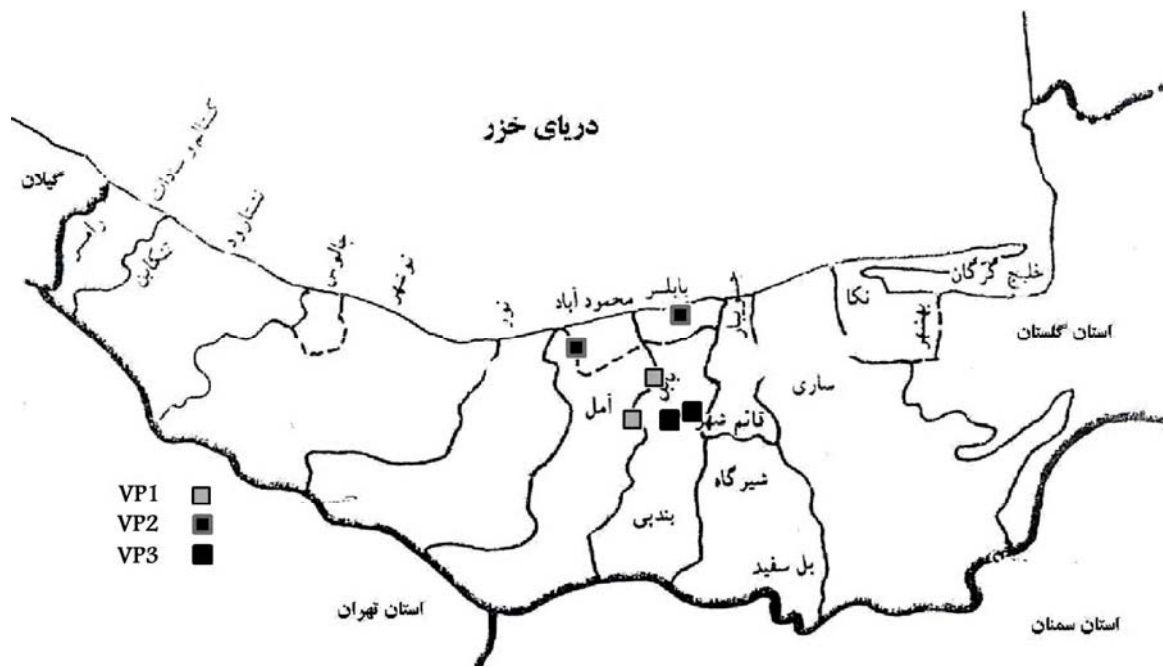
nit

Gibberella intermedia



nit

Gibberella intermedia



Gibberella intermedia

F. moniliforme

nit

(HSI)

(Correll *et al.*, 1986)

(HSC)

nit 1

(F18 F17)

nit

Nit M *nit* 3

F12 F11

nit 1

HSC

) F3

() F13 ()
()

()

(Farrokhi-Nejad, 1999; *Gibberella fujikuroi*
(Bowden & Leslie, *G. zae* Correll *et al.*, 2000)

(2000) Chulze *et al.* . 1992)

Gibberella fujikuroi A

(1999) Farrokhi-Nejad .

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