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Didymella rabiei

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							D. rabiei
							(ppm)
							(CSMA)
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						(

CSMA

(%)

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Ascochyta rabiei

(Pass.) Labrousse [teleomorph: *Didymella rabiei*
(Kovachevski)V. Arx]

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A. rabiei

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D. rabiei / × /

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1. Hemocytometer
 2. Vaccum desicator

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SAS MSTATC
General linear models procedure

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D. rabiei

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D. rabiei

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(*D. rabiei*)

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(*D. rabiei*)

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D. rabiei

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(variability) () ()

D. rabiei ()

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REFERENCES

1. Bashir, M. & M. B. Ilias.1984. *In-vitro* sensitivity of *Ascochyta rabiei* mycelium to fungicides at various concentrations.International Chickpea Newsletter(Abst.)110:16-17.
2. Bhatti, M. A., B. A. Malik & S. A. Hussain. 1983. Efficacy of Calixin M and other fungicides against *Ascochyta* blight in Chickpea. International Chickpea Newsletter (Abst.) 8:23-24.
3. Edington , L. V., R.A. Martin, G. C. Burin & I. M. Parsons. 1980. Systemic fungicides : A perspective after 10 years . Plant Dis. 64 (1):19- 23.
4. Gaur, R. B. & R. D. Singh. 1985. Control of *Ascochyta* blight of chickpea through foliar spray. International Chickpea Newsletter (Abst.) 13:22-24.
5. Gomez, K. A. & A. A. Gomez. 1984. Statistical Procedures for Agricultural Research, 2nd ed. Wiley, New York. 680P.

6. Halfon-meiri, A. 1970. Influence of chickpea seed by *Ascochyta rabiei* in Israel. Plant Dis. Repr. 54:442-445.
7. Kaiser, W. J., M. Okhovat & G. H. Mossahebi. 1973. Effect of seed treatment fungicides on control of *Ascochyta rabiei* in chickpea seed infected with the pathogen. Plant Dis. Repr. 57:742-746.
8. Kaiser, W. J. & R. M. Hannan. 1988. Seed transmission of *Ascochyta rabiei* in chickpea and its control by seed treatment fungicides. Seed Sci. and Technol. 16:625-637.
9. Maden, S., D. Singh, S. B. Mathur & P. Neergaard. 1975. Detection and location of seed born inoculum of *Ascochyta rabiei* and its transmission in chickpea (*Cicer arietinum*). Seed Sci. and Technol. 3:667-681.
10. Mahmoodi, F., & Z. Banihashemi. 2004. Distribution of mating type, teleomorph formation, and genetic diversity in *Didymella rabiei* the causal agent of chickpea blight in Fars province. Iran.J.Plant Path.,Vol.40(1-2): 15-30
11. Mahmoodi, F., & Z. Banihashemi. 2004. Survival and host range of *Ascochyta rabiei* , the cause of chickpea blight in Fars province. Iran. J. Plant Path., Vol. 40 (3-4): 281-290
12. Mmbaga, M. T. 1997. Pathogenic variability of *Ascochyta rabiei* and *Ascochyta* blight resistance in chickpea. 23-37 .in: DNA markers and breeding for resistance to *Didymella* blight in chickpea. Proceedings of the Symposium on Application of DNA Fingerprinting for Crop Improvement: Marker assisted selection of chickpea for sustainable agriculture in the dry areas, (S.M. Udupa and F. Weigand, eds.). 11-12 April 1994, ICARDA, Aleppo, Syria.
13. Okhovat, M. 1974 . Chickpea blight and the methods of its control in Iran. Pulse Project. Agricultural College. University of Tehran, Iran.78P.
14. Reddy, N. V. & Y. L. Nene. 1979. A case for induced mutation in chickpea for *Ascochyta* blight resistance. Pages: 398- 408 in: Proce. Symp. Role Induced Mutate. Crop. Improve. Osmania University, Hyderabad, India.
15. Reddy, M. V. & K. B. Singh. 1983. Foliar application of Bravo 500 for *Ascochyta* blight Control . International Chickpea Newsletter. (Abst.) 8:25-26
16. Sharafeh, M. & Z Banihashemi. 1992. Study on chickpea blight and its control in Fars province. Iran.J.Plant Path.Vol.28: 19-21
17. Sharif, G., E. Nieman, & M. Ghanea. 1967. Chickpea blight in Iran. Ent. phytopath.appl. 25:10-15
18. Singh, G. & M. Singh. 1990. Chemical control of *Ascochyta* blight chickpea . Indian Phytopathl. 43 (1):59-63.
19. Wiese, M. V., W. J. Kaiser, L. J. Smith & F. J. Muehlbauer. 1995. *Ascochyta* blight of chickpea. College of Agricultural, University of Idaho.(short report)4pp.
20. Younesi, H., Okhovat, M., & M. R. Zamani. 1998. Study of chickpea blight in Kermanshah Province. (Abst.) Proceeding of the 13th Iranian Plant Protection Congress, Karaj, Iran 2:155
21. Younesi, H., M. Okhovat, , Gh. A. Hedjaroude, S. J. Zad, , A. R. Talebi, & M. R. Zamani. 2003. Virulence variability of *Ascochyta rabiei* isolates on chickpea cultivars in Kermanshah province. Iran. J. Plant Path., Vol. 39(3-4): 73-76.