

DAFTAR PUSTAKA

- Abadi, A. Latif, 2000. *Epidemiologi dan Strategi Pengelolaan Penyakit Tumbuhan*. Lembaga penerbitan Fakultas Pertanian Universitas Brawijaya, Malang.
- Agrawal, A.A., Sadic.T., & Elizabeth. B., 1999. *Induced Plant Defenses Against Pathogens and Herbivores; Biochemistry, Ecology, and Agriculture*. APS Press. St. Paul, Minnesota.
- Agrios, G.N., 1997. *Plant Pathology*. 4th Ed. Academic Press, New York.
- Alexopoulos, C.J. & C.W. Mims, 1979. *Introductory Mycology* 3th edition. John Wiley & Sons Inc. New York.
- Alon, H., J. Katan, & N. Kedar, 1973. Factors Affecting Penetrance of Resistance to *Fusarium oxysporum* f.sp. *lycopersici* in Tomatoes. *Phytopathology* 64: 455 – 461.
- Ambar, A.A., Ambarwati. H.T.J., Nursamsi. P.S., Arif. W., 2002. Karakterisasi *Fusarium oxysporum* Penyebab Penyakit Layu pada Tomat. Tesis S2 PPs UGM (tidak dipublikasi).
- , A. Rosmana, & Baharuddin, 1998. Pengendalian Hayati Menggunakan Ekstrak Akar Tanaman terhadap *Fusarium oxysporum* Penyebab Penyakit Layu pada Bawang Merah (*Allium ascalonicum* L.). Skripsi S1 UNHAS (tidak dipublikasi)
- Anonim, 2009a. Perubahan warna pada Nikon. <http://www.kamera-digital.com/forum/viewtopik.php?topicID=24852>. Diakses tanggal 18 Maret 2010.
- Anonim, 2009b. Warna foto berubah di lightroom. <http://www.fotografer.net/isi/forum/topik.php?id>. Diakses tanggal 18 Maret 2010.
- Anonim, 2010. List Tomato of Cultivars. http://www.naturalhub.com/grow_vegetable_cultivar_tomato_hm. Diakses pada tanggal 27 Januari 2010.
- Bacon, C.W., J.K. Porter, W.P. Norred, & J.F. Leslie, 1996. Production of Fusaric Acid by *Fusarium* Species. *Applied and Environmental Microbiology* 62: 4039 – 4043.

- Baswarsiati, D., D. Setyorini, Suhardi, D. Rahmawati, E. Retnaningtyas, & I.R. Dewi, 2003. Hasil Uji Adaptasi Calon Varietas Unggul Tomat di Lahan Kering Dataran Rendah. *Laporan Akhir Penelitian TA. Anggaran 2003*. BPTP Karangploso.
- Bell, A.A., 1983. Biochemical Mechanisms of Disease Resistance. *Annual Review of Plant Physiology* 77: 21 – 81.
- Benhamou, N. & Richard. R. Belanger, 1998. Benzothiadiazole-Mediated Induced Resistance to *Fusarium oxysporum* f.sp. *radicis-lycopersici* in Tomato. *Plant Physiology* 118: 1203 – 1212.
- Booth, C., 1971. *The Genus Fusarium*. Commonwealth Mycological Inst. Kew, Surrey. England.
- Bouizgarne, B., M. Brault, A.M. Pennarun, J.P. Rona, Y. Ouhdouch, I. El Hadrami & F. Bouteau, 2004. Electrophysiological Responses to Fusaric Acid of Root Hairs from Seedling of Date Palm-susceptible and -resistant to *Fusarium oxysporum* f.sp. *albedinis*. *Journal of Phytopathology* 152: 321 – 324.
- , H. El-MaaroufBouteau, C. Frankart, D. Reboutier, K. Madiona, A.M. Pennarun, M. Monestiez, J. Trouverie, Z. Amiar, J. Briand, M. Brault, J.P. Rona, Y. Ouhdouch & I. El Hadrami, 2006. Early Physiological Responses of *Arabidopsis thaliana* Cells to Fusaric Acid: Toxic and Signalling Effects. *New Phytologist* 169: 209 – 218.
- BPS, 2009. *Tanaman Hortikultura Indonesia*. (on-line) <http://www.deptan.go.id/hortikultura>. Diakses tanggal 18 Desember 2009.
- Campbell, M.M. & R.R. Sederoff, 1996. Variation in Lignin Content and Composition. *Plant Physiology* 110: 3 – 13.
- Chakrabarti, D.H. & B C.K. Chaudhary, 1980. Correlation between Virulence and Fusaric Acid Production in *Fusarium oxysporum* f.sp. *carthami*. *Phytopathol* Z 99: 43 – 46.
- Constabel, C.P., 1999. A Survey of Herbivore-Inducible Defensive Protein and Phytochemicals. In Agrawal, A.A., Sadik. T, Elizabeth. B. *Induced Plant Defenses Against Pathogens and Herbivores*. APS Press, St. Paul, Minnesota. 137 – 166.

- Conway, W.S., & W.E. MacHardy, 1977. Distribution and Growth of *Fusarium oxysporum* f.sp. *lycopersici* Race 1 or Race 2 within Tomato Plant Resistant or Susceptible to Wilt. *Phytopathology* 68: 938 – 942.
- De Ascensao, A.R.D.C.F., & I.A. Dubery, 2000. Panama Disease: Cell Wall Reinforcement in Banana Roots in Response to Elicitors from *Fusarium oxysporum* f.sp. *cubense* Race Four. *Phytopathology* 90: 1173 – 1180.
- Daniel, M. & R.P. Purkayastha, 1995. *Handbook of Phytoalexin Metabolism and Action*. Marcel Dekker, Inc. USA.
- D'Alton, A., & B. Etherton, 1984. Effects of Fusaric Acid on Tomato Root Hair Membrane Potentials and ATP Levels. *Plant Physiology* 74: 39 – 42.
- De Cal, A., R. Garcia-Lepe, & P. Melgarejo, 1999. Induced Resistance by *Penicillium oxalicum* Against *Fusarium oxysporum* f.sp. *lycopersici*: Histological Studies of Infected and Induced Tomato Stems. *Phytopathology* 90: 260 – 268.
- Delahaut, K. & W. Stevenson, 2004. Tomato Disorders: Fusarium and Verticillium Wilts. University of Wisconsin-Extension, Cooperative Extension. web site: cecommerce.uwex.edu.
- de Melo, I.S. & Everaldo. P., 1999. Toxic Metabolites from Culture Filtrate of *Fusarium oxysporum* and its Effects on Cucumber Cells and Plantlets. *Revista de Microbiologia* 30: 104 – 106.
- De Weert, S., I. Kuiper, E.L. Lagendijk, G.E.M. Lamers & B.J.J. Lugtenberg, 2004. Role of Chemotaxis Toward Fusaric Acid in Colonization of Hyphae of *Fusarium oxysporum* f.sp. *radicis-lycopersici* by *Pseudomonas fluorescens* WCS365. *Molecular Plant-Microbe Interaction* 17: 1185 – 1191.
- Dinas Pertanian dan Perkebunan Kabupaten Enrekang, 2007. Laporan Tahunan Hama dan Penyakit Tanaman Tomat dan Cabe Kabupaten Enrekang.
- Eged, S., 2002. Change in the Content of Fusaric Acid during *Fusarium oxysporum* Ontogenesis. *Biologia, Bratislava* 56. 6: 725 – 728.
- El-Samra, H.A., M.A. Amer, M.R.A. El-Hamid, M. El-Saadani, S.S. Kabeil, A.M. El-Alwany, & Y.A. Tayeb, 2009. Tomato Varietal Response to *Alternaria solani* and *Fusarium solani* Infection. *World Journal of Agriculture Science* 5 (6): 737 – 745.

- Flanagan, A.M.J. & J.N. Owens, 1985. Peroxidase Activity in Relation to Suberization and Respiration in White Spruce Seedling Roots. *Plant Physiology* 79: 103 – 107.
- Gao, H., C.H. Beckman, & W.C. Mueller, 1995. The Nature of Tolerance to *Fusarium oxysporum* f.sp. *lycopersici* in Polygenically Field-Resistant Marglobe Tomato Plant. *Physiological and Molecular Plant Pathology* 46: 401 – 412.
- Garraway, M.O. & R.C. Evans., 1984. *Fungal Nutrition Physiology*. John Wiley & Sons, Inc. New York, Chichester, Brisbane, Toronto, Singapore.
- Gonsalves, A.K., & Stephen, A.P., 1993. *Fusarium oxysporum*. http://www.extento.hawaii.edu/kbase/crop/Type/f_oxys.htm. diakses tanggal 25 Februari 2005.
- Goodman, R.N., Zoltan. K., & Milton. Z., 1986. *The Biochemistry and Physiology of Plant Disease*. D. Van Nostrand Company, Inc. New Jersey, Toronto, London, Melbourne.
- Gunadi, R., 1997. Pengaruh Iklim terhadap Perkembangan Penyakit Layu *Fusarium* pada Cabai di Beberapa Topoklimat di Yogyakarta, *Jurnal Perlindungan Tanaman Indonesia* 3: 93 – 99.
- Hwang, B. Kook, 1995. Effects of Age-Related Resistance and Metalaxyl on Capsidiol Production in Pepper Plants Infected with *Phytophthora capsici* in *Handbook of Phytoalexin Metabolism and Action*. Marcel Dekker, Inc. New York.
- Jim, H.G.L., H.D. Nickel & J.M. Midholm, 1996. Phytotoxicity of Culture Filtrate from *Fusarium solani*, the Causal Agent of Sudden death Syndrome of Soybean. *Plant Disease* 80: 922 – 927.
- Kolattukudy, P.E., 1980. Biopolyester Membranes of Plant: Cutin and Suberin. *Science* 208: 990 – 1000.
- Kornerup, A. & J.H. Wanscher, 1978. *Methuen Handbook of Colour*. 3th Edition. Colour Plates Printed in Denmark, Richard Clay, Chichester.
- Kuc, J., 1983. Induce Systemic Resistance in Plants to Disease Caused by Fungi and Bacteria. In. Bailey J.A. and B.J. Deverall (Eds). *The Dynamics of Host Defence*. Acad. Press, London.

- & F.I. Caruso, 1977. Activated Coordinated Chemical Defence Against Disease. In Paul A (ed) 1977. Host Plant Disease in Plant. ACS Symposium Series 62: 78 – 87 .
- Kužniak, E., 2001. Effects of Fusaric Acid on Reactive Oxygen Species and Antioxidants in Tomato Cell Cultures. *Journal of Phytopathology* 149: 575 – 582.
- , J. Patykowski & H. Urbanek, 1999. Involvement of the Antioxidative System in Tomato Responses to Fusaric Acid Treatment. *Journal of Phytopathology* 147: 385 – 390.
- Landa, B.B., J.M. Cachinero-Diaz, P. Lemanceau, R.M. Jimenez-Diaz, & C. Alabouvette, 2002. Effect of Fusaric Acid and Phytoanticipins on Growth of Rhizobacteria and *Fusarium oxysporum*. *Canadian Journal of Microbiology* 48: 971 – 985.
- Luckner, M., 1984. *Secondary Metabolism in Microorganisms, Plant, and Animals*. Second Revised and Enlarged Edition. Springer Heidelberg New York.
- MacHardy & Beckman, 1981. Vascular Wilt Fusaria: Infection and Pathogenesis in Nelson, P.E., T.A. Toussoun, & R.J. Cook, 1981. *Fusarium: Diseases, Biology, and Taxonomy*. The Pennsylvania State University Press University Park and London.
- Martanto, E.A., C. Sumardiyono, H. Semangun, & B. Hadisutrisno, 2003. *Interaksi Inang-Patogen pada Penyakit Kudis Ubijalar (Elsinoe batatas)*. Disertasi PPs UGM, tidak dipublikasi.
- Marreè, M.T., P. Vergani & F.G. Albergoni, 1993. Relationship between Fusaric Acid Uptake and its Binding to Cell Structures in leaves of *Egeria densa* and its toxic effects on Membrane Permeability and Respiration. *Physiol. Mol. Plant Pathol* 42: 141 – 147.
- Matsumoto, K., M. Luz Barboza, L.A.C. Saouca & J.B. Teixeira, 1995. Ras 1 Fusarium Wilt Tolerance on Banana Plant Selected by Fusaric Acid. *Euphytica* 103: 131 – 136.
- Miller, S.A., Randall. C.R., & Richard. M.R, 2001. *Fusarium and Verticillium Wilts of Tomato, Potato, Pepper, and Eggplant*.



- Morillo, I., L. Cavallarin., & B.S. Segundo., 1999. Cytology of Infection of Maize by *Fusarium moniliforme* and Immunolocalization of the Pathogenesis-Related PRms Protein. *Phytopathology* 89: 737 – 747.
- Nel, B., C. Steinberg, N. Labuschagne, & A. Viljoen, 2006. Isolation and Characterization of Nonpathogenic *Fusarium oxysporum* Isolates from the Rhizosphere of Healthy Banana Plants. *Plant Pathology* 55: 207 – 216.
- Nelson, P.E., A.E. Desjardins, & R.D. Plattner, 1993. Fumonisin, Mycotoxin Produced by *Fusarium* Species: Biology, Chemistry and Significance. *Annual Review of Phytopathology* 31: 233-250.
- ., T.A. Toussoun, & R.J. Cook, 1981. *Fusarium: Diseases, Biology, and Taxonomy*. The Pennsylvania State University Press. University Park and London.
- Notz, R., M. Maurhofer, H. Dubach, D. Haas, & G. Défagoi, 2002. Fusaric Acid-Producing Strain of *Fusarium oxysporum* Alter 2,4-Diacetylphloroglucinol Biosynthetic Gene Expression in *Pseudomonas fluorescens* CHA0 In-Vitro and the Rhizosphere of Wheat. *Applied and Environmental Microbiology* 68: 2229 – 2235.
- Ozyigit, I.I., M.V. Kahraman, & O. Ercan, 2007. Relation between Explant Age, Total Phenol and Regeneration Response in Tissue Cultured Cotton (*Gossypium hirsutum* L.). *African Journal of Biotechnology* 6: 03 – 08.
- Polle, A., T. Otter, & F. Seifert, 1994. Apoplastic Peroxidase and Lignification in Needles of Norway Spruce (*Picea abies* L.). *Plant Physiology* 106: 153 – 158.
- Prabowo, A.K.E., N. Prihatiningsih, & L. Soesanto, 2006. Potensi *Trichoderma harzianum* dalam Mengendalikan Sembilan Isolat *Fusarium oxysporum* f.sp. *zingiberi* Trujillo pada Kencur. *Jurnal Ilmu-Ilmu Pertanian Indonesia* 8 (2): 76 – 84.
- Pusat Penelitian dan Pengembangan Hortikultura, 2009. deptan.co.id. diakses pada tanggal 27 Januari 2010.
- Robb, J., Lee S.W., Mohan. R., & P.E. Kolattukudy, 1991. Chemical Characterization of Stress Induced Vascular Coating in Tomato. *Plant Physiology* 97: 528 – 536.

- Rodriguez-Molina, M.C., I. Melina, L.M. Torres-Villa, & J. Cuartero, 2003. Vascular Colonization Patterns in Susceptible and Resistant Tomato Cultivars Inoculated with *Fusarium oxysporum* f.sp. *lycopersici* Races 0 and 1. *Plant Pathology* 52: 199 – 203.
- Rosmahani, I., M. Solleh, E. Korlina, Baswarsati, & Setyohari, 2003. Pengkajian Pengaruh Biofertilizer dan Agensi Hayati untuk Patogen Tular Tanah Mendukung Pengelolaan Tanaman Tomat. *Prosiding Seminar dan Ekspose Teknologi, BPTP Jawa Timur, Malang*.
- Rozlianah, F.S., & M. Sariah, 2006. Characterization of Malaysian Isolates of *Fusarium* from Tomato and Pathogenicity Testing. *Research Journal of Microbiology* 3: 266 – 272.
- Ruzin, S.E., 1999. *Plant Microtechnique and Microscopy*. Oxford University Press, New York.
- Salerno, I.M., S. Gianninazzi, C. Arnould, & V.G. Pearson, 2004. Ultrastructural and Cell Wall Modification during Infection of *Eucalyptus viminalis* Roots by a Pathogenic *Fusarium oxysporum* Strain. *J. Gen Plant Pathol* 70: 145 – 152.
- Salleh, B., 1995. Perkembangan Mutakhir Penelitian *Fusarium* di Kawasan Tropika. *Prosiding Kongres Nasional X dan Seminar Ilmiah Perhimpunan Fitopatologi Indonesia, Jakarta*.
- Sass, J.E., 1971. *Botanical Microtechnique*. (3th Eds). The Iowa State University Press, Iowa.
- Schwartz, H.F. & D.H. Gent, 2000. *Eggplant, Pepper, and Tomato: Frog-eye Leaf Spot (Cercospora Leaf Spot)*. High Plains IPM Guide, a Cooperative Effort of the University of Wyoming, University of Nebraska, Colorado State University and Montana State University.
- Seifert, K., 1996. *Fuskey*. <http://res.agr.ca/brd/pda-e.html>. Diakses tanggal 25 Februari 2004.
- Semangun, H., 1996. *Pengantar Ilmu Penyakit Tumbuhan*. Gadjah Mada University Press, Yogyakarta.
- _____, 1989. *Penyakit-Penyakit Hortikultura*. Gadjah Mada University Press, Yogyakarta.



- Sheng Huang, J., 2001. *Plant Pathogenesis and Resistance: Biochemistry and Physiology of Plant-Microbe Interactions*. Kluwer Academic Publishers, Dordrecht, Boston, London.
- Soesanto, L., Soedharmono, N. Prihatiningsih, A. Manan, E. Iriani, & J. Pramono, 2003. Penyakit Busuk Rimpang Jahe di Sentra Produksi Jahe Jawa Tengah: Identifikasi dan Sebaran. *Tropika* 11(2): 107 – 220.
- _____ & R.F. Rahayuniati, 2009. Pengimbasan Ketahanan Bibit Pisang Ambon Kuning terhadap Penyakit Layu Fusarium dengan Beberapa Jamur Antagonis. *J. HPT Tripoka* 9 (2): 130 – 140.
- Steinkellner, S., R. Mammerler, & H. Vierheilig, 2005. Microconidia Germination of the Tomato Pathogen *Fusarium oxysporum* in the Presence of Root Exudates. *Journal of Plant Interactions* 1 (1): 23 – 30.
- Sticher, L., B Mauch-Mani, & JP. Métraux, 1997. Systemic Acquired Resistance. *Annual Review of Pyhtopathology* 35: 235 – 270.
- Suhardi & M. Bustamam, 1979. Penelitian Pendahuluan Ras-Ras Fisiologi *Fusarium oxysporum* f.sp. *lycopersici* pada Tanaman Tomat (*Lycopersicum esculentum* L.). *Prosiding Kongres Nasional V Perhimpunan Fitopatologi Indonesia*, Malang.
- Sukadaryati & T.A. Prayitno, 2000. Karakterisasi Lignin Pinus Pasca Sadap. *Agrosain* 13: 163 – 173.
- Toussoun, T.A., & P.E. Nelson, 1976. *Fusarium: A Pictorial Guide to the Identification of Fusarium species According to the Taxonomic System of Snyder and Hansen*. 2nd Edition. Pennsylvania State University Press. University Park and London
- Vance, C.P., K.Kirk., & R.T. Sherwood, 1980. Lignification as a Mechanism of Disease Resistance. *Annual Review of Phytopathology* 18: 259 – 288.
- Van der Plank, J.E., 1982. *Host-Pathogen Interaction in Plant Disease*. Acad. Press, New York.
- Walker, J.C., 1975. *Plant Pathology*. 3th. TMH Edition Tuta Mc Graw Hill Publishing Company Limited New Delhi.

Waterhouse, A. 1999. *Follin-Ciocalteau Micro Method for Total Phenol in Wine*.
D:%20internet/Folin%20Ciocalteau%Micro%Metho....diakses 3/11/2006
6:06.

Wijayani, A. & Wahyu. W. 2005. Usaha Meningkatkan beberapa Varietas Tomat
dengan Sistem Budidaya Hidroponik. *Ilmu Pertanian* 12: 77 – 83.