DAFTAR PUSTAKA

Abdel-Mallek, A.Y. and A.M. Moharram, 1986. Effect of the herbicide ametryn on cellulose-decomposing fungi in Egyptian soil. Folia Microbiologica 31: 375-381.

Adimihardja, A. 2006. Strategi mempertahankan multifungsi pertanian di Indonesia. Jurnal Litbang Pertanian 25(3) : 99-105.

Airesa, R.S., A.S. Steindorff, M.H.S. Ramadab, S.J.L. Siqueirab, C.J. Ulhoa. 2011. Biochemical characterization of a 27 kDa 1,3-β-d-glucanase from *Trichoderma asperellum* induced by cell wall of *Rhizoctonia solani*. Carbohydrate Polymers 87 : 1219-1223.

Ait-Lahsen, H., A. Soler, M. Rey, J. de La Cruz, E. Monte and A Llobell. 2001. An antifungal exo-alpha-1,3-glucanase (AGN13.1) from the biocontrol fungus *Trichoderma harzianum*. Appl Environ Micro 67(12) : 5833-5839.

Anonim. 1996. Reregistration Eligibility Decision (RED) for Bromacil. United States Environmental Protection Agency. Washington, D.C.

Anonim. 2003a. *Phytophthora cinnamomi* & Plant Disease Caused by it vol 1 – Management Guidelines. Departement Coservation and Land Management Western Australia.

Anonim. 2003b. Reregistration Eligibility Decision (RED) for Diuron. United States Environmental Protection Agency. Washington, D.C.

Anonim. 2004. *Phytophthora cinnamomi*. Bulletin OEPP/EPPO 34: 155-157.

Anonim. 2005 Reregistration Eligibility Decision (RED) for Ametryn. United States Environmental Protection Agency. Washington, D.C.

Anonim. 2008a. The Biology of *Ananas comosus v*arr. *comosus* (Pineaplle). Australian Goverment Office of the Gene Technology Regulator Visit. <www.ogtr.gov.au>. Diakses pada 11 Desember 2014.

Anonim. 2008b. Infection of native plants by *Phytophthora cinnamomi*. Department of Environment and Climate Change NSW. <www.environment.nsw.gov.au>. Diakses pada 17 Desember 2014.

Anonim. 2014a. Nanas (*Ananas comosus*). Kementerian Negara Riset dan Teknologi. <www.warintek.ristek.go.id/pertanian/nenas .pdf>. Diakses pada 11 Desember 2014.

Anonim. 2014b. Data Sheet *Phytophthora cinnamomi*. <https://www.eppo.int /QUARANTINE/fungi/Phytophthora_cinnamomi/PHYTCN_ds.pdf>. Diakses pada 23 Desember 2014.

Anonim. 2015. Introduction to Weeds and Herbicides. Penn State. <http://pubs.cas.psu.edu/freepubs/pdfs/uc175.pdf.>. Diakses pada 09 februari 2015.

Arfarita , A,T. Imai , A. Kanno , T. Yarimizu , S. Xiaofeng , W. Jie , T.Higuchi and R. Akadac. 2013. The potential use of *Trichoderma viride* strain FRP3 in biodegradation of the herbicide glyphosate. Biotechnol. & Biotechnol. eq 27(1) : 3518-3521.

Bartnicki-Garcia, S and E. Lippman. 1996. Liberation of protoplasts from the mycelium of Phytophthora. J. gen. Microbiol 42 : 411 – 416.

Bizjest, Z. 2002. Screening of avocado rootstock material for tolerance to *Phytophthora cinnamomi*. University of Pretoria. Tesis.

Bartholomew, D. P., K. G. Rohrbach, and D. O. Evans. 2002. Pineapple cultivation in Hawaii. College of Tropical Agriculture and Human Resources University of Hawaii at Manoa 1 – 8.

BPS. 2014. Hortikultura. < http://www.bps.go.id/menutab.php?kat=3&tabel=1&id_subyek =55>. Diakses pada 24 November 2014.

Brito, J.P.C., M.H.S. Ramada, M.T.Q. Magalhães, L.P. Silva and C.J. Ulhoa. 2014. Peptaibols from *Trichoderma asperellum* TR356 strain isolated from Brazilian soil. Springer Plus. < http://www.springerplus.com/content/3/1/600>. Diakses pada 18 September 2015.

Carlier, J. D., G. C.Eeckenbrugge, and J. M. Leitão. 2007. Pineapple. Genome Mapping and Molecular Breeding in Plants 4 (18) : 331-342.

Chakraborty, B.N., U. Chakraborty, A. Saha and P.L. Dey and K.Sunar. 2010. Molecular characterization of *Trichoderma viride* and *Trichoderma harzianum* isolated from soils of North Bengal based on rDNA markers and analysis of Their PCR-RAPD Profiles. Global Journal of Biotechnology & Biochemistry 5 (1): 55-61.

Collins, J. L. 1949. History, Taxonomy and Culture of the Pineapple Economic Botany. 3(4) : 335-359.

Crane, J. H. 2013. Pineapple Growing in the Florida Home Landscape. University of Florida IFAS Exstension. <http://edis.ifas.ufl.edu/mg055>. Diakses pada 11 Desember 2014.

Desprez-Loustau, M. L. 2006. *Phytophthora cinnamomi*. Delivering Alien Invasive Species Inventories for Europe. <http://www.europe-aliens.org/pdf/Phytophthora cinnamomi.pdf>. Diakses pada 24 Desember 2014.

Devi, S. P., M. Thangam, M.S. Ladaniya and N.P. Singh. 2013. Pineapple-a profitable fruit crop for Goa. ICAR Research Complex for Goa. India 5: 1 – 25.

Elad, Y., I. Chet and Y. Heni. 1981. A selective medium for improving quantitative isolation of *Trichoderma* spp. from soil. Phytoparasitica 9(1): 59-67.

Fajrin, M. N., Suharjono, dan M. E. Dwiastuti.2013. Potensi *Trichoderma* sp. sebagai agen pengendali *Fusarium* sp. patogen tanaman strawberry (*Fragaria* sp.). Jurnal Biotropika. 1(4): 77 – 81.

Ferguson and Jeffers. 1999. Detecting multiple species of *Phytophthora* in container mixes from ornamental crop nurseries. Plant Disease 83:1129-1136.

Green, J. and S. Nelson. 2015. Heart and root rots of pineapple. College of Tropical Agriculture and Human Resources. University of Hawai'i at Mānoa 106 : 1 – 7.

Hardam, A.R. 2005. Pathogen profile *Phytophthora cinnamomi*. Molecular Plant Pathology 6 (6) : 589 – 604.

Harman, G. E. 2006. Overview of mechanisms and uses of *Trichoderma* spp. Phytopathology 96:190-194.

Hermosa, M. R., I. Grondona, E. A. Iturriaga, J. M. Diaz-Minguez, C. Castro, E. Monte and I. Garcia-Acha. 2000. Molecular characterization and identification of biocontrol isolates of *Trichoderma* spp. Applied and Environmental Microbiology 66 (5) :1890–1898.

Hwang, S. C., and W. H. Ko. 1978. Biology of chlamydospores, sporangia, and zoospores of *Phytophthora cinnamomi* in soil. Phytopathology 68 : 726-731.

Indarti, D. 2013. Informasi Komoditas Hortikultura (Nenas). Pusat Data dan Sistem Informasi Pertanian. Jakarta.

Ismail, N. dan A. Tenrirawe. 2010. Potensi agens hayati *Trichoderma* spp. sebagai agens pengendali hayati. Seminar Regional Inovasi Teknologi Pertanian, mendukung Program Pembangunan Pertanian Propinsi Sulawesi Utara 177 – 189.

Joy P.P., and Sindhu P. 2012. Disease of pineapple (*Ananas comosus*) : pathogen, symptoms, infection, spread & management. Pineapple Research Station. Kerala Agriculture University. <http://www.kau.edu/prsvkm/Html/Pubns.htm>. Diakses pada 17 Desember 2014.

Kageyama, K., A. Nakashima, Y. Kajihara, H. Suga, E. B. Nelson. 2005. Phylogenetic and morphological analyses of *Pythium graminicola* and related species. J Gen Plant Pathol 71 : 174 – 182.

Keen, B. and T. Vancov. 2010. *Phytophthora cinnamomi* suppressive soils. Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology 1: 239 – 250.

Kobori, H, M. Tojo, N. Hasunama and S. T. Ohki. 2004. Materials of *Pythium* flora in Japan (XI): characterization of *Pythium graminicola* causing seedling blight in rice. Sci. Rep. Grad. Sch. Agric. & Biol. Sci 56 : 1-5.

Korabecna, M. 2007. The variability in the fungal ribosomal DNA (ITS1, ITS2, and 5.8 S rRNA Gene): Its biological meaning and application in medical mycology. Department of Biology, Faculty of Medicine in Pilsen, Charles University. Karlovarska 783-787.

Kredics, L., Z. Antal, L. Manczinger, A. Szekeres, F. Kevei and E. Nagy. 2003. Influence of environmental parameters on *Trichoderma* strains with biocontrol potential. Biotechnol 41(1) : 37–42.

Laili, N., dan H. Imamuddin. 2011. Isolasi dan karakterisasi bakteri pendegradasi herbisida diuron dan bromacil dari area perkebunan di Lampung. Berk. Penel. Hayati 17 : 57–61.

Majid, M., Hasanuddi dan M. I. Pinem. 2014. Uji pengaruh beberapa herbisida terhadap *Trichoderma* sp. secara in vitro. Jurnal Online Agroekoteknologi 2(4) : 2337- 6597.

Marais, L. J., J. A. Menge, G. S. Bender, B. Faber. 2002. Phytophthora root rot. Cifornia Avocado Commission. <http://brokawnursery.com/planting-a-management-articles/finish/6-phytopthora-cinnamomi/16-california-avocado-commission-phytopthora-root-rot/0.html>. Diakses pada 25 Desember 2014.

Marchant, R. 1968. An ultrastructural study of sexual reproduction in *Pythium ultimum*. New Phytol 67 : 167-171.

Miloševic, N.A., and M. M. Govedarica . 2002. Effect of herbicides on microbiological properties of soil. Proceedings for Natural Sciences, Matica Srpska Novi Sad. 102:5 – 21.

Moncada, A. 2015. Environmental fate of diuron. Environmental Monitoring Branch Department of Pesticide Regulation. <http://www.cdpr.ca.gov/docs/emon/pubs/fatememo/diuron.pdf>. Diakses pada 10 September 2015.

Moorman, G. W., S. May, K. Ayers. 2015. What's *Pythium*. Plant Pathology and Environmental Microbiology. <http://plantpath.psu.edu/pythium/module1/pythium>. Diakses pada 27 Agustus 2015.

Motlagh, M. R. S. and Zahra Samimi. 2013. Evaluation of *Trichoderma* spp., as biological agents in some of plant pathogens. Annals of Biological Research 4 (3): 173-179.

Mukarlina, S. Khotimah dan R. Rianti. 2010. Uji antagonis *Trichoderma harzianum* terhadap *Fusarium* spp. penyebab penyakit layu pada tanaman cabai (*Capsicum annum*) secara in vitro. J. Fitomedika. 7 (2): 80-85.

O'Gara, E., Howard, K., Wilson, B. and Hardy, G.E. St J. (2005) Management of *Phytophthora cinnamomi* for biodiversity conservation in Australia: Part 2 – National Best Practice Guidelines. A report funded by the Commonwealth Government Department of Environment and Heritage and the Centre for Phytophthora Science and Management Murdoch University. Western Australia.

Paull, R. E., and O. Duarte. 2011 Tropical Fruits, 2nd Edition, Volume 1. CAB International.

Pornsuriya, C., Wang, H.K., Lin, F.C. and Soytong, K. (2008). First report of pineapple root rot caused by Pythium graminicola. Journal of Agricultural Technology 4(1): 139-150.

Qurtubi, M.A. 2014. Survei jumlah spesies, dominansi, dan penyebaran gulma pada tingkat divisi, wilayah, dan lokasi perkebunan nanas PT.Great Giant Pineapple Plantation Group 3 di Lampung. Fakultas Pertanian, Universitas Lampung. Abstrak

Rakhmat, F dan F. Handayani. 2007. Budidaya dan pasca panen nanas. Balai Pengkajian Teknologi Pertanian Kalimantan Timur.

Rao, V. G. and D. N. Mhaska. 1973. Studies on a leaf blotch disease of pineapple. Research Institute, Poona. India.

Rismansyah, E. A. 2013. Uji antagonisme *Trichoderma* dekomposer kulit buah kakao terhadap *Phytophthora palmivora*. Balai Proteksi Tanaman Perkebunan Pontianak.

Robertson, G. I. 1980. The genus *Pythium* in New Zealand. New Zealand Journal of Botany 18: 73-102.

Rohrbach, K. G., and Schenck, S. 1985. Control of pineapple heart rot, caused by *Phytophthora parasitica* and *P. cinnamomi*, with metalaxyl, fosetyl Al, and phosphorous acid. Plant Disease 69: 320-323.

Sabari, S.D., Suyanti dan Sunarmani. 2006. Tingkat kematangan panen buah nenas sampit untuk konsumsi segar dan selai. J. Hort 16(3):258-266.

Samuels, G. J., E. Lieckfeldt and H. I. Nirenberg. 1999. *Trichoderma asperellum*, a new species with warted conidia, and redescription of *T. viride*. Sydowia 51(1) : 71-88.

Santoro, P. H., S. A. Cavaguchi, T. M. Alexandre, J. Zorzetti and P. M. O. J. Neves. 2014. In vitro sensitivity of antagonistic *Trichoderma atroviride* to herbicides. Biology And Technology an International Journal 57 (2) : 238-243.

Santoso, P. J., I. N. P. Aryantha, A. Pancoro dan S. Suhandono. 2015. Identification of *Pythium* and *Phytophthora* associated with Durian (*Durio* sp.) in Indonesia: their moleculer and morphological characteristics and distribution. Asian Journal of Plant Pathology 9 (2) : 59-71.

Sari, G. I., L. Q. Aini, dan A. L. Abadi. Pengaruh pemberian kompos terhadap perkembangan penyakit busuk hati (*Phytophthora* sp.) pada tanaman nanas (*Ananas comosus*). Jurnal HPT 2 (4) : 71-76.

Siagian, V. J. 2013. Outlook Komoditi Nanas. Kementerian Pertanian Pusat Data dan Sistem Informasi Pertanian. <http://epublikasi.setjen.pertanian.go.id/epublikasi/outlook/2013/outlook_horti/Outlook_Nanas_2013/index.html#/17/zoomed>. Diakses pada 24 November 2014.

Simarmata, M. 2009. Herbicide combination for controlling glyphosate resistant weed. Jurnal Akta Agrosia 12(1) : 83-88.

Sriwati, R., T. Chamzurni dan L. Kemalasari. 2014. Kemampuan bertahan hidup *Trichoderma harzianum* dan *Trichoderma virens* setelah ditumbuhkan bersama dengan Jamur patogen tular tanah secara *in vitro*. Jurnal Floratek 9 : 14-21.

Sumardiyono, C, T. Joko, Y. Krisnawati, Y. D. Chinta. 2011. Diagnosis dan pengendalian penyakit antraknosa pada pakis dengan fungisida . J. HPT Tropika 11(2): 194-200.

Sunarwati, D. dan R. Yoza. 2010. Kemampuan *Trichoderma* dan *Penicillium* dalam menghambat pertumbuhan cendawan penyebab penyakit busuk akar durian (*Phytophthora palmivora*) secara in vitro. Seminar Nasional Program dan Strategi Pengembangan Buah Nusantara 176-189.

Thorn, W. A. and G.A. Zentmyer. 1952. Hosts of *Phytophthora cinnamomi* rands, the causal organism of avocado root rot California Avocado Society 1952 Yearbook 37: 196-200.

Tjokrowardojo, A.S., N. Maslahah, dan Gusmaini. 2010. Pengaruh herbisida dan fungi mikoriza arbuskula terhadap pertumbuhan dan produksi tanaman artemisia. Bul. Littro 21(2) : 103-116.

Venkatasubbaiah, P., L. F. Grand and C. G. V. Dyke. 1991. a new species of *Pestalotiopsis* on *Oenothera*. Mycologia, 83(4) : 511-513.

Vinale, F., K. Sivasithamparamb, E. L. Ghisalberti, R. Marraa, S. L. Wooa, and M Lorito. 2008. *Trichoderma* plant pathogen interactions. Soil Biology & Biochemistry 40 : 1-10.

Voigt K, E. Cigelnik and K. o'donnell. 1999. Phylogeny and PCR identification of clinically important Zygomycetes based on nuclear ribosomal-DNA sequence data. J. Clin. Microbiol. 37(12):3957- 3964.

Watanabe T. 2002. Pictorial Atlas of Soil and Seed Fungi Morphologies of Cultured Fungi and Key to Species. CRC Press LLC. U.S.A.

Weste, G., G.C. Marks. 1987. The biology of *Phytophthora cinnamomi* in Australasian forests. Ann. Rev. Phytopathology 25 : 207-29.

Wolf, D.C., D.I. Bakalivanov and J. P. Martin. 1975. Reactions of bromacil in soil and fungus cultures. University of California. Riverside 36-48.

Yuan-gang, C, Z. Xiu-ren, J. Zai-you, M. Li. 2011. Effects of several common herbicides on the growth and sporulation quantity of *Trichoderma harzianum*. Henan Institute of Science and Technology. Abstrak. <http://en.cnki.com.cn/Article_en/CJFDTOTAL-HBNY201110022.htm>. Diakses pada 11 September 2015.

Živković, S., S. Stojanović, Ž. Ivanović, V. Gavrilović, T. Popović, and J. Balaž. 2010. Screening of antagonistic activity of microorganisms against *Colletotrichum acutatum* and *Colletotrichum gloeosporioides.* Arch. Biol. Sci., Belgrade 62(3) : 611-623.