

DAFTAR PUSTAKA

- Adhikari, T., Joseph, C., Yang, G., Phillips, D., Nelson, L. (2001). Evaluation of Bacteria Isolated From Rice for Plant Growth Promotion and Biological Control of Seedling Disease of Rice. *Canadian Journal of Microbiology*, 47, hlm. 916-924.
- Agarwal, R.K., Gupta, S., Mittal, G., Khan, F., Roy, S., Agarwal, A. (2015). Antifungal Susceptibility Testing of Dermatophytes by Agar Based Disk Diffusion Method. *International Journal of Current Microbiology and Applied Science*, 4(3), hlm. 430-436.
- Agromedia. (2008). *Buku Pintar Tanaman Obat, 431 Jenis Tanaman Penggempur Aneka Penyakit*. Jakarta: PT. Agromedia Pustaka.
- Ahamed, N. (2012). Isolation and Identification Of Secondary Metabolites Producing Organisms From Marine Sponge. *Discovery*, 1(1), hlm. 14-17.
- Aman, M. & Rai, R.V. (2016). Antifungal activity of novel indole derivative from endophytic bacteria *Pantoea ananatis* 4G-9 against *Mycosphaerella musicola*. *Biocontrol Science and Technology*, 26(4), hlm. 476-491.
- Aminah, N.S., et al. (2001). *S. rarak, D. metel, dan E. prostata sebagai Larvasida Aedes aegypti*. Jakarta: Cermin Dunia Kedokteran.
- Anggraeni, R. (2013). *Pengaruh Pemberian Topikal*. Surabaya: Universitas Airlangga.
- Anggriawin, M. (2012). *Kemampuan Isolat Bakteri Penghasil Antijamur Dalam Menghambat Beberapa Jenis Fusarium Pada Benih Tomat (Solanum lycopersicum L.)*. Skripsi. Fakultas Matematika dan Ilmu Pengetahuan Alam. Universitas Sumatera Utara. Medan.
- Arundhina, E., Sogihardjo, C.J., Sidharta, B.B.R. (tanpa tahun). Aktivitas Ekstrak Etanol Daun Alamanda (*Allamanda cathartica* L.) sebagai Antijamur Terhadap *Candida albicans* dan *Pityrosporum ovale* Secara *in vitro*. hlm. 1-14.
- Bacon, C.W. & Siegel, M.R. (1990). Isolation of Biotechnological Organisms from Nature. *Mc Graw-Hill Environment Biotechnology Series*. US. hlm. 259-279.
- Badan POM RI. (2008). *Ageratum conyzoides* L. *Direkorat Obat Asli Indonesia*.

- Balasankar, D., *et al.* (2013). Traditional and medicinal uses of *vetiver*. *J. of Medicinal Plants Studies*, 1 (3), hlm. 191-200.
- Balouiri, M., Sadiki, M., Ibsouda, S.K. (2016). Methods for *in vitro* evaluating antimicrobial activity: A review. *Journal of Pharmaceutical Analysis*, 6, hlm. 71-79.
- Bamidele, F.S, Abayomi, O.O. and Esther, O.A. (2010). Economic Analysis of Rice Consumption Patterns in Nigeria. *J. Agr. Sci. Tech*, 12(1), hlm. 1-11
- Bandara, H.M.H.N., *et al.* (2010). *Pseudomonas aeruginosa* inhibits in-vitro *Candida*. *BMC Microbiology*, 10 (125), hlm. 1-9.
- Barros, M.E.S., Santos, D.A., Hamdan, J.S. (2007). Evaluation of Susceptibility of *Trichophyton mentagrophytes* and *Trichophyton rubrum* Clinical Isolates to Antifungal Drugs Using A Modified CLSI Microdilution Method (M38-A). *Journal of Medical Microbiology*, 56, hlm. 514-518.
- Bassoli, A., *et al.* (2008). Oleoylsalicylate Derivatives: Synthesis and Antifungal Activity. *The Open Natural Products Journal*, 1, hlm. 14-19.
- Berdy, J. (2005). Bioactive Microbial Metabolites. *J. Antibiot*, 58, (1), hlm. 1-26.
- Bhoonobtong, A., *et al.* (2012). Characterization of Endophytic Bacteria, *Bacillus Amyloliquefaciens* for Antimicrobial Agents Production. *International Conference on Biological and Life Sciences IPCBEE*, 40, hlm. 6-11.
- Brandt, R., *et al.* (2006). Potential of vetiver (*Vetiveria zizanioides* (L.) Nash) for phytoremediation of petroleum hydrocarbon-contaminated soils in Venezuela. *International j. of Phytoremediation*, 8, hlm. 273-284.
- Bunch, A., & Harris, R. (1986). The Manipulation of Microorganism for The Production of Secondary Metabolites. *The university of Kent, UK*. hlm. 117-144.
- Carson, C.F., Hammer, K.A., Riley, T.V. (2006). *Melaleuca alternifolia* (tea tree) oil: A review of antimicrobial and other medicinal properties. *Clin. Microbiol. Rev.*, 19, hlm. 50–62.
- Chermette, R., Ferreiro, L., Guillot, J. (2008). Dermatophytoses in animals. *Mycopathologia*, 166(5-6), hlm. 385-405.
- Conquist, A. (1981). *An Integrated System of Classification of Flowering Plants*. New York: Columbia University Press.
- Demain, A. (1998). Induction of Microbial Secondary Metabolism. *Springer-Verlag Ibérica* . (1), 259–264.

- Desai, N.C., Dodiya, A., & Shihory, N. (2011). Synthesis and Antimicrobial Activity of Novel Quinazolinone–Thiazolidine–Quinoline Compounds. *Journal of Saudi Chemical Society*. hlm. 1-9
- Devprakash, Snigh, P., Srinivasan, K. K. dan Snigh T. S. S. K. (2011). Antifungal activity of alcoholic and aqueous extracts of *Vetiveria zizanioides*. *Journal of Pharmaceutical research and Opinion*, 1 (3), hlm. 85-88.
- Dewick, P.M. (1999). *Medicinal Natural Products, A Biosynthesis Approach*. England: John Willey & Sons Ltd.
- Dinata, A. (2009). *Atasi Jentik DBD dengan Kulit Jengkol*, Diunduh dari <http://arda.students-blog.undip.ac.id/2009/10/18/atasi-jentik-bd-dengan-kulit-jengkol>, Diakses tanggal 22 Maret 2017.
- Dinesh, S., Ajit, P., Madhav, P., Chetan, P., Prachi, P. (2013). Study Of Antifungal Activity Of Boric Acid On Vaginal Pathogens. *International Journal of Advanced Biotechnology and Research*, 4(3), hlm. 319-323.
- El-Mehalawy, A. A., Gebreel, H. M., El-Kholy, L. M., & Humid, A. A. (2008). Effect of Antifungal Compounds Produced by Certain Bacteria on Physiological Activities of Human And Plant Pathogenic Fungi. *Journal of Applied Sciences Research*. 4, (4), 425-432.
- Esper, R.H., Goncalvez, E., Felicio, R.C., Felicio, D.J. (2015). Fungicidal Activity and Constituents of *Ageratum conyzoides* L. Essential Oil from Three Regions in São Paulo state, Brazil. *Pharmacology / Scientific Communication*, 82, hlm. 1-4.
- Fauziah, N. (2012). *Potensi Bakteri Symbion Endorizosfer Ageratum conyzoides L. Sebagai Antagonis Terhadap Mikroorganisme Patogen pada Manusia: Skripsi*. Fakultas Pendidikan Matematika dan Pengetahuan Alam. Universitas Pendidikan Indonesia. Bandung.
- Federer, W. T. (1977). *Experimental Design Theory And Application, Third Edition*. Oxford and IBH Publishing Co, New Delhi Bombay Calcuta.
- Ferreira, M.P.S.B.C., Cardoso, M.F.C., Silva, F.C., Ferreira, V.F., Lima, E.S., Souza, V.B. (2014). Antifungal Activity of Synthetic Naphthoquinones Against Dermatophytes and Opportunistic Fungi: Preliminary Mechanism-Of-Action Tests. *BioMed Central*.
- Firadus, F. (2016). *Deteksi Gen Anti Fungi Isolat Bakteri Endofit dari Akar Tumbuhan Obat*. Skripsi. Fakultas Pendidikan Matematika dan Pengetahuan Alam. Universitas Pendidikan Indonesia. Bandung.
- Fitriani, A., Aryani, A., Yusuf, H., Permatasari, Y. (2013). The Exploration of Ketosynthase Gene on Endophytic Bacterial Root of *Vetiveria zizanioides*
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 AKTIVITAS ANTI JAMUR ISOLAT BAKTERI ENDOFIT AKAR *Ageratum conyzoides*
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L. *International Journal of Basic & Applied Sciences IJBAS-IJENS*, 13(4), hlm. 112- 119.

- Fitriani, A., Ihsan, F., Hamdiyati, Y. dan Maemunah. (2015). Antibacteria activity of *Shewanella* and *Pseudomonas* as endophytic bacteria from the root of *Ageratum conyzoides* L. *Asian Journal of Applied Sciences*, 3 (3), hlm. 415- 420.
- Fitriani, A. dan Herdiansyah, S.A. (2016). Detection of nonribosomal peptide synthetase (NRPS) genes on bacterial endophytes from *Vetiveria zizanioides* L. and *Ageratum conyzoides* L. *Int. J. Pharm. Sci. Rev. Res* 36 (1) : 124-128.
- Florey, K. (1984). *Analytical Profile of Drugs Substances Volume 13*. New York: Academic Press, Inc.
- Freidman, M., Henika, P. R., & Mandrell, R. E. (2003). Antibacterial Activities of Phenolic Benzaldehydes and Benzoic Acids Against *Campylobacter jejuni*, *Escherichia coli*, *Listeria monocytogenes*, and *Salmonella enterica*. *Journal of Food Protection*, 66(10), hlm. 1811–1821.
- Garcia A., Rhoden S.A., Rubin Filho C.J., Nakamura C.V., (2012). Diversity of Foliar Endophytic Fungi from The Medicinal Plant *Sapindus saponaria* L. and their localization by scanning electron microscopy. *Biol. Res*, 45, hlm. 139-148.
- Global Biodiversity Information Facility. (2015). *Trichophyton mentagrophytes* (*C. P. Robin*). [Online]. Diakses dari: <http://www.gbif.org/species/2596108/classification>.
- Ghannoum, M. A. (2013). Efficacy of NVC-422 in The Treatment of Dermatophytosis Caused by *Trichophyton mentagrophytes* Using a Guinea Pig Model. *International Journal of Dermatology*, 52, hlm. 567–571
- Gong, A.D., Li, H.P., Shen, L., Bo, J. Zhang., Wu, A.B., He, W.J., Yuan, Q.S., He, J.D., Liao, Y.C. (2015). The *Shewanella algae* Strain YM8 Produces Volatiles With Strong Inhibition Activity Against *Aspergillus* Pathogens and Aflatoxins. *Front Microbiol*.
- Gubbins, P.O., Anaissie, E.J. (2007). Antifungal Therapy. *General Principles, including Diagnosis*.
- Gulani, C. Bhattacharya, S. Das, A. (2012). Assessment Of Process Parameters Influencing The Enhanced Production of Prodigiosin From *Serratia Marcescens* and Evaluation of Its Antimicrobial, Antioxidant and Dyeing Potentials. *Malaysian Journal of Microbiology*. 8, (2), 116-122.

- Gunatilaka, A.A. L. (2006). Natural products from plant-associated microorganisms: distribution, structural diversity, bioactivity and implications of their occurrence. *Natural Product*, 69 (3), hlm. 509-526.
- Hammer, K.A., Carson, C.F., Riley, T.V. (2002). In vitro activity of Melaleuca alternifolia (tea tree) oil against dermatophytes and other filamentous fungi. *J. Antimicrob. Chemoth.*, 50, hlm. 195–199.
- Harborne, J.B. (1996). *Phytochemical Methods*, diterjemahkan oleh Padmawinata K., Soediro I. Bandung: Penerbit ITB.
- Hunter, P. (2009). Boron is The New Carbon in The Quest for Novel Drug Candidates. *European Molecular Biology Organization*, 10(2), hlm. 125-128
- Ihsan, F. (2013). *Identifikasi Metabolit Sekunder Potensial Antibakteri pada Bakteri Endorizosfer Ageratum conyzoides*. Skripsi. Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam. Universitas Pendidikan Indonesia. Bandung.
- Ilker, M. F., Nusslein, K., Tew, G. N., & Coughlin, E. B. (2004). Tuning the Hemolytic and Antibacterial Activities of Amphiphilic Polynorbornene Derivatives. *J. AM. CHEM. SOC*, 126(48), hlm. 15870-15875.
- Isda, M. N., Fatonah, S. dan Fitri, R. (2013). Potensi ekstrak daun babadotan (*Ageratum conyzoides* L.) terhadap perkecambahan dan pertumbuhan *Paspalum conjugatum* Berg. *Jurnal Biologi*, 6 (2), hlm. 120-125.
- James, E.K., et al. (1997). *Herbaspirillum*, an endophytic diazotroph colonizing vascular tissue in leaves of *Sorghum bicolor* L. Moench. *Journal of Experimental Botany*, 48(308), hlm. 785-797.
- Jasim, B., Anisha, C., Rohini, S., Kurian, J.M., Jyothis, M., Radhakrishnan, E.K. (2014). Phenazine carboxylic acid production and rhizome protective effect of endophytic *Pseudomonas aeruginosa* isolated from *Zingiber officinale*. *World J Microbiol Biotechnol*, 30(5), hlm. 1649-1654.
- Jauhari, L.T. (2010). *Seleksi dan Identifikasi Kapang Endofit Penghasil Antimikroba Penghambat Pertumbuhan Mikroba Patogen*. Skripsi. Fakultas Sains dan Teknologi. Universitas Islam Negeri Syarif Hidayatullah. Jakarta.
- Javed, S. dan Uzma, B. (2012). Antifungal activity of different extracts of *Ageratum conyzoides* for *Fusarium solani*. *Biotechnology*, 11 (49), hlm. 11022-11029.

- Joseph, Baby dan Priya, R. M. (2011). Bioactive compounds from endophytes and their potential in pharmaceutical effect: a review. *Biochemistry and Molecular Biology*, 1(3), hlm. 291-309.
- Kaaria, P., Matiru, V., Ndungu, M. (2012). Antimicrobial Activities of Secondary Metabolites Produced by Endophytic Bacteria from Selected Indigenous Kenyan Plants. *African Journal of Microbiology Research*, 6 (45), hlm. 7253-7258.
- Kaufman, G., Horwitz, B.A., Duek, L., Ullman, Y., Berdicevsky, I. (2007). Infection Stages of The Dermatophyte Pathogen *Trichophyton*: Microscopic Characterization and Proteolytic Enzymes. *Medical Mycology*, 45, hlm. 149-155.
- Kinasih, I., Supriyatna, A. dan Rusputa, R.N. (2013). Uji toksisitas ekstrak daun babadotan (*Ageratum conyzoides* Linn) terhadap ikan mas (*Cyprinus carpio* Linn.) sebagai organisme non-target. *Jurnal ISTEK*, 7 (2), hlm. 121-132.
- Knudtson, W.U., Gates, C.E., Ruth, G.R. (1980). *Trichophyton mentagrophytes* dermatophytosis in wild fox. *J Wild Dis.*, 16, hlm. 465–468.
- Koberi, M., Schmidt, R., Ramadan, M., Bauer, R. dan Berg, G. (2013). The microbiome of medicinal plants : diversity and importance for plant growth, quality and health. *Frontiers in Microbiology*, 4, hlm. 1-8.
- Liu, X., Dong, M., Chen, X., Jiang, M., Lv, X., Zhou, J. (2008). Antimicrobial Activity of An Endophytic *Xylaria* sp.YX-28 and Identification of Its Antimicrobial Compound 7-amino- 4-methylcoumarin. *Applied Microbiology and Biotechnology*, 78, hlm. 241-247.
- Liu, T., Zhang, Q., Wang, L., *et al.* (2007). The use of global transcriptional analysis to reveal the biological and cellular events involved in distinct development phases of *Trichopython rubrum* conidial germination. *BMC Genomics*, 8, hlm. 100-114.
- Lumowa, S.V.V. (2011). Efektivitas Ekstrak Babadotan (*Ageratum conyzoides* L.) Terhadap Tingkat Kematian Larva Spodoptera Litura F. *Eugenia*. 6(8), hlm. 1747- 1755.
- Lutfiyanti, R., Widodo Farid., dan Eko Nurcahya Dewi. (2012). Aktivitas Antijamur Senyawa Bioaktif Ekstrak *Geledium latifolium* Terhadap *Candida albicans*, *Jurnal Pengelolaan dan Bioteknologi*, 1: 45-47
- Madani, A.F., (2000). Infeksi Jamur Kulit. *Ilmu Penyakit Kulit*. Jakarta: 73-74.

- Maffei, M. (2002). *Vetiveria : The Genus Vetiveria*. New York: Taylor and Francis.
- Malfanove, N. V. (2013). *Endophytic Bacteria with Plant Growth Promoting and Biocontrol Abilities*. Leiden: Institute Biology of Leiden (IBL), Faculty of Science, Leiden University.
- Mascotti, M.L., D. Enriz, R., Giannini, F.A. (2008). Acute Toxicity Study of Commercial Antifungal Drugs using *Poecilia reticulata*. *Latin American Journal of Pharmacy*, 27(6), hlm. 904-905.
- Masita, Risma. (2016). *Aktivitas Antifungi Isolat Bakteri Endofit Akar Tanaman Obat terhadap Candida albicans dan Trichophyton mentagrophytes*. Skripsi. Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam. Universitas Pendidikan Indonesia. Bandung.
- Meena, K. R dan Kanwar, S. S. (2015). Lipopeptides as the antifungal and antibacterial agents : applications in food safety and therapeutics. *BioMed* : 1-9.
- Melo F.M., Fiore, M.F., Moraes, L.A.B., Silva-Stenico, M.E., Seramin, S., Teixeira, M.A. dan Melo, I.S. (2009). Antifungal compound produced by the cassava endophyte *Bacillus pumilus* MA IIM4A. *Science Agriculture*, 5, hlm. 583-592.
- Mendez, L.Y.V., Zacchino, S.A. & Kouznetsov, V.V. (2010). Synthesis of New 4-Methyl-2-(4-pyridyl)-1,2,3,4-tetrahydroquinolines as Potent Antifungal Compounds. *J. Braz. Chem. Soc.*, 21(1), hlm. 105-111.
- Menpara, D., Chanda, S. (2013). Endophytic Bacteria- Unexplored Reservoir of Antimicrobials for Combating Microbial Pathogens. *Microbial pathogens and strategies for combating them: science, technology and education*, hlm.1095- 1103.
- Ming, L. C. (1999). *Ageratum conyzoides* : a tropical source of medicinal and agricultural products. Dalam Junick, J. (Penyunting), *Perspectives on New Crops and New Uses* (hlm. 469-473). Alexandria : ASHS Press.
- Ming G., Song H., Berninger B., Inagaki N., Tessier-Lavigne M., Poo M. (1999). Phospholipase C-gamma and phosphoinositide 3-kinase mediate cytoplasmic signaling in nerve growth cone guidance. *Neuron*, 23, hlm. 139-148.
- Miron, D., Battisti, F., Silva, F.K., Lana, A.D., Pippi, B., Casanova, B. Gnoatto, S., Fuentesfria, A., Mayorga, P., & Schapoval, E.E.S. (2014). Antifungal Activity and Mechanism of Action of Monoterpenes Against Dermatophyte and Yeast. *Brazilian Journal of Pharmacognosy*, 24, hlm. 660-667.

- Mustafa, M. F. M., Alamri, S. A., Taha, T. H., & Alrumman, S. A. (2013). *In Vitro* Antifungal Activity of *Argemone Ochroleuca* Sweet Latex Against Some Pathogenic Fungi. *African Journal of Biotechnology*, 12, (10), 1132-1137.
- Myers, R.S. (2006). Antifungal Agents. *Immunizing and Antimicrobial Agents*, hlm. 1-16.
- Nair, Dhanya N dan Padmavathy, S. (2014). Impact of endophytic microorganisms on plants, environment and humans. *The Scientific World*: 1-11.
- Nathanson, R.B. (tanpa tahun). The Fungistatic Action of Oleic, Linoleic, and Linolenic Acids on *Trichophyton rubrum* *In Vitro*.
- Nazir, Moh. (2005). *Metode Penelitian*. Jakarta: Ghalia Indonesia.
- Negri, M., Salci, T.P., Mesquita, C.S.S., Gapoci, I.R.G., Svidzinski, T.I.E., Kioshima, E.S. (2014). Early State Research on Antifungal Natural Products. *Molecules Resume*, 2014(19), hlm. 2925-2956.
- Niken A.S., M.A. (2017). *Uji Toksisitas Ekstrak Tanaman Ageratum conyzoides L. sebagai Insektisida Nabati terhadap Mortalitas Hama Ulat Kubis (Plutella xylostella L.)*. Skripsi. Fakultas Keguruan dan Ilmu Pendidikan. Universitas Sanata Dharma. Yogyakarta.
- Nindhia, I.P.S.T.S. (2013). Penuntun Praktikum Rancangan Percobaan dengan SPSS. Universitas Udayana.
- Nugraha, A. S. and Keller, P. A. (2011). Revealing indigenous Indonesian traditional medicine: anti-infective agents. *Natural Product Communications*, 6 (12), hlm. 1953-1966.
- Nweze, E. (2011). Dermatophytoses in domesticated animals. *Rev. Inst. Med. Trop. Sao Paulo*, 53(2), hlm. 95-99.
- Okunade, A.L., Hufford, C.D., Richardson, M.D., Peterson, J.R., & Clark, A.M. (1994). Antimicrobial Properties of Alkaloids from *Xanthorrhiza simplicissima*. *Journal of Pharmaceutical Sciences*, 83(3), hlm. 404-406.
- Okunade, A.L. (2002). *Ageratum conyzoides* L. (Asteraceae). *Fitoterapia*, 73, hlm. 1-16.
- Padalia, R. C., Verma, R. S., & Vellu, S. (2010). Volatile Constituents of Three Invasive Weeds of Himalayan Region. *Rec. Nat. Prod.* 4, (2), 109-114.
- Pelczar, M.J. and Chan, E.S.C. (1988). *Dasar-dasar Mikrobiologi II*. Terjemahan Ratna S.H., Teja I., Sutarmi dan Sri L.A. Jakarta: UI-Press.

- Peres, N.T.A., dkk. (2010). Dermatophytes: Host-Pathogen Interaction and Antifungal Resistance. *Anais Brasileiros de Dermatologia*, 85(5), hlm. 657-678
- Pereira, F.O., Mendes, J.M., Lima, E.O. (2013). Investigation on mechanism of antifungal activity of eugenol against *Trichophyton rubrum*. *Medical Mycology*, 51(5), hlm. 507-513.
- Permatasari. (2011). *Karakterisasi dan Identifikasi Molekuler Bakteri Endofit Akar Vetiveria zizanioides L.* Skripsi. Fakultas Pendidikan Matematika dan Pengetahuan Alam. Universitas Pendidikan Indonesia. Bandung.
- Petitt, R. K. (2011). Small-molecules Elicitation of Microbial Secondary Metabolites. *Microbial Biotechnology*. 4, (4), 471-478.
- Petrini, O., T.N. Sieber., L. Toti., O. Viret. (1992). Ecology Metabolite Production, En Substrate Utilization In Endophytic Fungi. Wiley Liss Inc, *Swiss Natural Toxins. 1*, hlm. 185-196.
- Pimentel, M. R., Molina, G., Dionisio, A. P., Junior, M. R. M. dan Pastore, G. M. (2011). The use of endophytes to obtain bioactive compounds and their application in biotransformation process. *Biotechnology Research International* : 1-11.
- Pinter, L. & Stritof, Z. (2004). A retrospective study of *Trichophyton mentagrophytes* infection in dogs (1970-2002). *Veterinarski Arhiv*, 74 (4), hlm. 251-260.
- Pontieri, P., Massardo, D.R., Senatore, F., Tredici, M., Vigliotta, G., Alifano, P., Giudice, L.Del. (2005). Isolation and characterization of endophytic bacteria in *Vetiveria zizanioides* (L.) Nash Roots. *Proceedings of the XLIX Italian Society of Agricultural Genetics Annual Congress*. 56, hlm. 1-2.
- Prapagdee. (2008). *Antifungal Potential of Extracellular Metabolites Produced by Streptomyces hygrosopicus against Phytopathogenic Fungi*. [Online]. Tersedia: <http://www.ncbi.nlm.nih.gov/pmc/articles/pmc2556053/> . Diakses tanggal 16 September 2017.
- Prasetyoputri, A. dan Atmosukarto, I. (2006). Mikroba endofit. *Bio Trends: Pusat penelitian Bioteknologi – LIPI. Cibinong*. 1: 13-15.
- Pratiwi, D. (2013). Kandungan Metabolit Sekunder yang Berpotensi sebagai Antibakteri dari Bakteri Endofit Akar *Vetiveria zizanioides*. Skripsi. Fakultas Pendidikan Matematika dan Pengetahuan Alam. Universitas Pendidikan Indonesia. Bandung.

- Purwani, J. (2013). *Remediiasi Tanah dengan Menggunakan Tanaman Akumulator Logam Berat Akar Wangi (Vetiveria zizanioides L.)*. Balai Penelitian Tanah.
- Radji, M. (2005). Peran Bioteknologi dan Mikroba Endofit dalam Pengembangan Obat Herbal. *Majalah Ilmu Kefarmasian*. 2(3), hlm. 113-126.
- Rao, R. & Suseela, M. (2000). *Vetiveria zizanioides* (Linn.) Nash A Multipurpose Eco-Friendly Grass Of India. *Proceedings of the 3rd International Vetiver Conference, Thailand, January 2000*.
- Ratha, M., Subha, K., Senthilkumar, G., & Panneerselvam, A. (2012). Screening of Phytochemical and Antibacterial Activity of *Hemisdemus indicus* (L.) and *Vetiveria zizanioides* (L). *European Journal of Experimental Biology*, 2 (2). hlm. 363-368.
- Robinson, T., (1995) *Kandungan Organik Tumbuhan Tinggi, Edisi ke-4 Terjemahan Koasasih Padmawinata*. Bandung: ITB Press.
- Rodwell, G.E., Bayles, C.L., Towersey, I., Aly, R. (2008). The prevalence of dermatophyte infection in patients infected with human immunodeficiency virus. *Int J Dermatol*, 47, hlm. 339-343.
- Rogawansamy, S. *et al.* (2015). An Evaluation of Antifungal Agents for the Treatment of Fungal Contamination in Indoor Air Environments. *Int. J. Environ. Res. Public Health*, 12, hlm. 6319-6332.
- Rosales, A.M., Thomashow, L., Cook, R.J., Mew, T.W. (1995). Isolation and Identification of Antifungal Metabolites Produced by Rice-Associated Antagonistic *Pseudomonas aeruginosa*. *The American Phytopathological Society*, 85(9), hlm. 1028-1032.
- Rosenblueth, M & Romero, E.M. (2006). Bacterial Endophytes and Their Interactions with Hosts. *Molecular Plant-Microbe Interaction*. 19, (8), 827-837.
- Rosica, P. (2015). *Eksplorasi Gen Polyketide Synthase dan Identifikasi Molekuler Bakteri Endofit Akar Ageratum conyzoides L*. Skripsi. Fakultas Pendidikan Matematika dan Pengetahuan Alam. Universitas Pendidikan Indonesia. Bandung.
- Sachin, C.D., Ruchi, K., and Santosh, S. (2012). *In-vitro* evaluation of proteinase, phospholipase and haemolysin activities of *Candida* species isolated from clinical specimens. *Int J Med Biomed Res*, 1, hlm. 153-157.
- Saleem, M., Nazir, M., Ali, M. S., Hussain, H., Lee, Y. S., Riaz, N., & Jabbar, A. (2010). Antimicrobial natural products: an update on future antibiotic drug candidates. *Natural Product Reports*. 27, 238–254.

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AKTIVITAS ANTI JAMUR ISOLAT BAKTERI ENDOFIT AKAR *Ageratum conyzoides*
DAN *Vetiveria zizanioides* TERHADAP *Trichophyton mentagrophytes*

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- Samrot AV, Avinesh RB, Sukeetha SD, Senthilkumar P. (2011). Accumulation of poly[(R)-3-hydroxyalkanoates] in *Enterobacter cloacae* SU-1 during growth with two different carbon sources in batch culture. *Appl Biochem Biotechnol*, 163, hlm. 195–203.
- Santos, D.A., Barros, M.E.S, Hamdan, J.S. (2006). Establishing a method of inoculum preparation for susceptibility testing of *Trichophyton rubrum* and *Trichophyton mentagrophytes*. *J Clin Microbiol*, 44, hlm. 98-101.
- Santos, D.A., Hamdan, J.S. (2005). Evaluation of Broth Microdilution Antifungal Susceptibility Testing Conditions for *Trichophyton rubrum*. *Journal Of Clinical Microbiology*, 43(4), hlm. 1917-1920.
- Saraswati, K. (2010). Aktivitas Antijamur Ekstrak Etanol Daun Benalu Cengkeh (*Dendrophthoe pentandra* (L.) Miq.) Terhadap *Candida albicans* dan *Trichophyton rubrum*. Skripsi. Fakultas Farmasi: Universitas Muhammadiyah Surakarta.
- Schmidt CS, Wolf GA, Lorenz D, Jae`ger J. (2001). Biological Control of The Grapevine Dieback Fungus *Eutypa Lata*, II.: Influence of Formulation Additives, Transposon Mutagenesis on The Antagonistic Activity of *Bacillus subtilis*, *Erwinia herbicola*. *Journal Phytopathol*, 149, hlm. 437–445.
- Shoda, Makoto. (2000). Bacterial Control of Plant Diseases. *J Biosci Bioeng*, 89(6), hlm. 515-521.
- Sholichah, N.M. (2010). *Isolasi Rare Actinomycetes dari Pasir Pantai Depok Daerah Istimewa Yogyakarta yang Berpotensi Antifungi terhadap Candida albicans*. Skripsi. Fakultas Farmasi. Universitas Muhammadiyah Surakarta. Surakarta.
- Shukla, S.T., Habbu, P.V., Kulkarni, V.H., Jagadish, K.S., Pandey, A.R., Sutariya, V.N. (2014). Endophytic Microbes: A Novel Source For Biologically/Pharmacologically Active Secondary Metabolites. *Asian Journal of Pharmacology and Toxicology*, 02(03), hlm. 01-16.
- Singh, A.K., Rautela, R., Carneotra, S.S. (2014). Substrate Dependent in vitro Antifungal Activity of *Bacillus* sp. Strain AR2. *Microbial Cell Factories*, 13(67), hlm. 1-11.
- Siregar, Charles. JP. (2004). *Farmasi Rumah Sakit Teori dan Penerapan*. Cetakan I. Jakarta: Penerbit EGC.
- Snigdha, M., Kumar, S. S., Sharmistha, M. dan Deepa, C. (2013). An overview on *Vetiveria zizanioides*. *Pharmaceutical, Biological and Chemical* 4 (3) : 777-783.

- Soares, M.M.S.R. & Cury, A.E. (2001). *In Vitro* Activity of Antifungal and Antiseptic Agents Against Dermatophyte Isolates from Patients with Tinea Pedis. *Brazilian Journal of Microbiology*, 32, hlm. 130-134.
- Sekhon, B.S. (2013). Metalloid Compounds as Drugs. *Research in Pharmaceutical Sciences*, 8(3), hlm. 145-158.
- Steenis, C.G.G.J. Van. (1997). *Flora*. Jakarta: Pradnya Paramita.
- Strobel, G.A and Daisy, B. (2003). Bioprospecting for Microbial Endophytes and their Natural Products. *Microbiol and Mol Biol*. 491-502.
- Sudarma I.M., Wazni, Wildawaty N., Yuanita E., Suana I.W. (2014). An Efficient Method on Nitration of Eugenol Using NH₄NO₃ and KHSO₄. *Asian Journal of Chemistry*, 26(1), hlm. 173.
- Sudibyoy, R. S. (2002). *Metabolit Sekunder: Manfaat & Perkembangannya dalam Dunia Farmasi*. Yogyakarta: Universitas Gajah Mada.
- Sunartatie, T. (2010). *Trichophyton mentagrophytes* sebagai Agen Penyebab Dermatofitosis pada Kambing, *J. Sain Vet.*, 28(1), hlm.48-54.
- Suwandi, U. (1992). Mekanisme Kerja Antibiotik. *Cermin Dunia Kedokteran*, 76. Jakarta: Pusat Penelitian dan Pengembangan PT Kalbe Farma.
- Tan R.X. dan Zou W.X. (2001). Endophytes: A Rich Source of Functional Metabolites. *Nat. Prod. Rep*, 18, hlm. 448-459.
- Tanuwijaya, V.A. (2015). Produksi Penisilin oleh *Penicillium chrysogenum* dengan Penambahan Fenilalanin. *Jurnal*. Universitas Atma Jaya : Yogyakarta.
- Tariq, M., Hameed, S., Yasmeen, T., Zahid, M. dan Zafar, M. (2014). Molecular characterization and identification of plant growth promoting endophytic bacteria isolated from the root nodules of pea (*Pisum sativum* L.). *Microbial Biotechnol*, 30, hlm. 719-725.
- Tomita F. (2003). Endophytes in Southeast Asia and Japan: Their Taxonomic Diversity and Potential Applications. *Fungal Diversity*, 14, hlm.187-204.
- Treat, J., James, W.D., Nachamkin, I., Seykora, J.T. (2007). Growth Inhibition of *Trichophyton* Species by *P.aeruginosa*. *JAMA Dermatology*, 143(1), hlm. 61-64.
- Ukwe, V.C., Epuke, E.A., Ekwunife, O.I., Okoye, T.C., Akudordan, G.C., Ubaka, C.M. (2010). Antimalaria Activity of Aqueous Extract and Fraction of Leaves of *Ageratum Conyzoides* in Mice Infected With *Plasmodium*

- Berghei. *International Journal of Pharmaceutical sciences*, 2(1), hlm. 33-38.
- Vena GA, Chieco P, Posa F et al. (2012). Epidemiology of dermatophytoses: retrospective analysis from 2005 to 2010 and comparison with previous data from 1975. *New Microbiol*; 35: 207–213.
- Vermout, S. *et al.* (2008). Pathogenesis of dermatophytosis. *Mycopathologia*, 166, hlm.267-75.
- Walters, D., Raynor, L., Mitchell, A., Walker, R., & Walker, K. (2004). Antifungal Activities of Four Fatty Acids Against Plant Pathogenic Fungi. *Mycopathologia*. 157, 87–90.
- Wang, L., Ma, L., Leng, W., Liu, T., Yu, L., Yang, J., Yang, L., Zhang, W., Zhang, Q., Dong, J., Xue, Y., Zhu, Y., Xu, X., Wan, Z., Ding, G., Yu, F., Tu, K., Li, Y., Li, R., Shen, Y., Jin, Q. (2006). Analysis of The Dermatophyte *Trichophyton rubrum* Expressed Sequence Tags. *BioMed Central*, 7(255), hlm. 1-13.
- Widowati, T. (2013). Identifikasi Senyawa Kimia Antifungal Dari Bakteri Endofit. *Tesis*. IPB (Institut Pertanian Bogor).
- Wijayanto, R. (2016). *Peran Positif Gulma dan Pemanfaatan Gulma*, Diunduh dari <https://www.scribd.com/doc/305508807/Peran-Positif-Gulma-Dan-Pemanfaatan-Gulma>, Diakses tanggal 1 Maret 2017.
- Williams, J. S. (2003). *Characterization of Bioactive Secondary Metabolites from Pseudomonas aeruginosa And Procentrum species*: Thesis on University of North Carolina Wilmington Faculty of Marine Science: tidak diterbitkan.
- Yuliar., Suciati., Supriyati, D., Rahmansyah, M. (2013). Biodiversity Of Endophytic Bacteria and Their Antagonistic Activity to *Rhizoctonia solani* and *Fusarium oxysporium*. *Global Journal of Biology, Agriculture & Health Science*, 2(4) hlm. 111-118.
- Zhang, H. W. Song, Y. C. dan Tan, X. (2006). Biology and chemistry of endophytes. *Natural Product* 23 : 753-771.
- Zhang, S., Wang, Y., Meng, L., Li, J., Zhao, X., Cao, X., Jing, F. (2012). Isolation and Characterization of Antifungal Lipopeptides Produced By Endophytic *Bacillus amyloliquefaciens* TF28. *African Journal of Microbiology Research*, 6(8), hlm. 1747-1755.
- Zhang, X. *et al.* (2014). Metalloprotease genes of *Trichophyton metagrophytes* are important for pathogenicity. *Medical Mycology*, 52, hlm. 36-45.

Zhukov, A. V., *et al.* (2013). Breeding to Improve Symbiotic Effectiveness of Legumes. [Online]. Tersedia: <http://dx.doi.org/10.5772/53003> . Diakses tanggal 13 September 2017.

