

DAFTAR PUSTAKA

- Abeles, F.B. 1973. *Ethylene in Plant Biology*. Academic Press Inc. New York.
- Abeles, F.B., Morgan P.W., dan Saltveit Jr. M.E. 1992. *Ethylene in Plant Biology 2nd Edition*. Academic Press. San Diego.
- Agrios, G.N. 2004. *Plant Pathology*. Ed ke-5. Academic Press Inc. California.
- Aloni, R. 2001. *Foliar and Axial Aspect of Vascular Differentiation: Hypotheses and Evidence*. *Journal of Plant Growth Regulation* 20: 22-34.
- Aloni, R. 2007. *Phytohormonal Mechanisms that Control Wood Quality Formation in Young and Mature Trees*. In: *The Compromised Wood Workshop 2007*. K. Entwistle, P. Harris, J. Walker (Ed). The Wood Technology Research Centre, University of Canterbury, Christchurch, New Zealand, pp 1-22.
- Aloni, R. 2013 a. *The Role of Hormones in Controlling Vascular Differentiation*. *Fromm J (Ed). Cellular Aspects of Wood Formation*. Plant Cells Monographs 20. Springer. Berlin.
- Aloni, R. 2013 b. *Role of Hormones in Controlling Vascular Differentiation and The Mechanism of Lateral Root Initiation*. *Planta* 238: 819-830.
- Andianto. 2010. *Ciri Anatomi Lima Jenis Kayu Penghasil Gaharu dan Dua Jenis Kerabatnya*. *Jurnal Penelitian Hasil Hutan* 28: 169-183
- Asdar, M. 2006. *Karakteristik Anatomi Kayu Gaharu Daun Beringin (*Gyrinops versteegii* (Gilg.) Domke) dari Gorontalo*. *Jurnal Perennial* 3: 6-10.
- Badan Pusat Statistik Kabupaten Klaten. 2010. *Kabupaten Klaten dalam Angka Tahun 2010*. BPS Kabupaten Klaten. Klaten.
- Badan Standardisasi Nasional. 2011. *Standar Nasional Indonesia (SNI). SNI 7631:2011. Gaharu*. BSN. Jakarta.
- Bowyer, J.L., Shmulsky R., dan Haygreen J.G. 2003. *Forest Product and Wood Science: An Introduction 4th Edition*. Iowa State Press. USA.
- Burg, S.P. 1973. *Ethylene in Plant Growth*. *Proc, Nat. Acad. Sci.* 70(2):591- 597. USA.
- Carlquist, S. 2013. *Interxylary Phloem: Diversity and Function*. *Brittonia* 65(4): 477-495. The New York Botanical Garden Press. Bronx, New York.
- Casey, J.P. 1960. *Pulp and Paper : Chemistry and Chemical Technology*. 3rd ed vol 1. New York.

- CITES. 2005. *Convention on International Trade in Endangered Species of Wild Fauna and Flora. Appendices I, II and III of CITES*. UNEP. 48 pp.
- Christianty, C.R. 2018. *Pengaruh Lama Perlakuan dan Konsentrasi Hormon Ethylene Terhadap Sifat Anatomi Kayu Aquilaria sp.* (Skripsi). Fakultas Kehutanan. Universitas Gadjah Mada. Yogyakarta.
- Clarke, J.D., Volko S.M., Ausubel, F.M., dan Dong Xinnian. 2000. *Roles of Salicylic Acid, Jasmonic Acid, and Ethylene in Cprinduced Resistance in Arabidopsis*. The Plant Cell; 12: 2175-2190.
- Forest Products Laboratory. 2010. *Wood Handbook: Wood as an Engineering Material*. General Technical Report FPL-GTR-190. Department of Agriculture, Forest Service, Forest Products Laboratory. United States.
- IAWA Committee. 1989. *IAWA List of Microscopic Features for Hardwood Identification*. IAWA Journal 10: 219-332.
- Ibrahim, M.M. 2018. *Pengaruh Lama Perlakuan dan Konsentrasi Hormon MethylJasmonate Terhadap Sifat Anatomi Kayu Tumbuhan Penghasil Gaharu (Aquilaria sp.)* (Skripsi). Fakultas Kehutanan. Universitas Gadjah Mada. Yogyakarta.
- Kasmudjo. 2016. *Produk Hasil Alami dan Budidaya: Kondisi dan Peluang*. Cakrawala Media. Yogyakarta.
- Keeling, C.I., dan Bohlmann J. 2006. *Genes, Enzymes and Chemicals of Terpenoid Diversity in The Constitutive and Induced Defense of Conifers Against Insects and Pathogens*. New Phytologist 170: 657-675. Canada.
- Kremer, P.J. dan Kozlowski T.T. 1979. *Physiology of Woody Plants*. Academic Press. New York.
- Lantican, C. 1975. *Variability and Control of Wood Quality*. Inagural Lecture. UPLB. Laguna.
- Lev-Yadun, S. dan Roni A. 1995. *Differentiation of the Ray System in Woody Plants*. Bot Rev 61: 45-84.
- Mandang, Y.I., dan Pandit I.K.N. 1997. *Seri Manual: Pedoman Identifikasi Jenis Kayu di Lapangan*. Yayasan PROSEA dan Pusat Diklat Pegawai & SDM Kehutanan. Bogor.
- Maryani, N., G. Rahayu dan E. Santoso, 2005. *Respon Acremonium sp. Asal Gaharu terhadap Alginate dan CaCl₂*. Prosiding Seminar Nasional Gaharu. 1-2 Desember 2005. Bogor.

- Merk-Turk, F. 2002. *Phytoaleksin: Defence or Just Respon to Stress?*. J. Cell Mol Biol 1:1-6.
- Michiho, I. 2005. *Introduction of Sesquiterpenoid Production by Methyl Jasmonate in Aquilaria Sinensis Cell Suspension Culture*. Essential Oil Research. [http/ www.findarticles.com](http://www.findarticles.com) (5 April 2018).
- Mohammed, R., Jong P.I., dan Kamziah A.H. 2014. *Fungal Inoculation Induces Agarwood in Young Aquilaria malaccensis Trees in the Nursery*. Journal of Forestry Research 25(1): 201-204.
- Mulyaningsih, T., dan Yamada I. 2008. *Notes on Some Species of Agarwood in Nusa Tenggara, Celebes and West Papua*. In Natural Resource Management and Socio-Economic Transformation Under the Decentralization in Indonesia: Toward Sulawesi Area Studies; CSEAS Kyoto University. Kyoto, Japan.
- Nakaba, S., Morimoto H., Arakawa I., Yamagishi Y., Nakada R., dan Funada R. 2017. *Responses of Ray Parenchyma Cells to Wounding Differ between Early Wood in The Sapwood of Cryptomeria japonica*. Trees 31: 27-39.
- Nobuchi, T. dan Siripatanadilok, S. 1991. *Preliminary Observation of Aquilaria crassna Wood Associated with The Formation of Aloewood*. Bull kyoto univ forest 63: 226-235.
- Overmyer, K., Tuominen H., Kettunen R., Betz C., Langebartels C., dan Kangasjärvi J. 2000. *Ozone-sensitive Arabidopsis RCDL Mutant Reveals Opposite Roles for Ethylene and Jasmonate Signaling Pathways in Regulating Superoxidedependent Cell Death*. Plant Cell 12(10): 49-62.
- Panshin, A.J. dan Carl de Zeeuw, 1980. *Textbook of Wood Technology Volume I*. McGraw-Hill Book Company. New York. USA.
- Plomion, C., Leprovost G., dan Stokes A. 2001. *Wood Formation in Trees*. Plant Physiology 127: 1513-1523.
- Prawirohatmodjo S. 2007. *Struktur dan Sifat-Sifat Kayu*. Bagian Penerbitan Fakultas Kehutanan Universitas Gadjah Mada. Yogyakarta.
- Rahayu, G. 2011. *Efektivitas dan Interaksi Antara Acremonium sp. dan Fusarium sp. dalam Pembentukan Gubal Gaharu pada Aquilaria microcarpa*. Siran SA dan Turjaman M (Ed). Pengembangan Teknologi Produksi Gaharu Berbasis Pemberdayaan Masyarakat Sekitar Hutan. Pusat Penelitian dan Pengembangan Hutan dan Konservasi Alam. Hal: 97 – 112. Bogor.

- Rajput, K.S., Patil V.S., dan Rao K.S. 2013. *Wood Anatomy and The Development of Interxylary Phloem of Ipomea hederifolia* Linn. (*Convolvulaceae*). *J Plant Growth regul* 32: 654-662.
- Rao, M.V. dan Davis K.R. 1999. *Ozone-induced Cell Death Occurs via Two Distinct Mechanisms in Arabidopsis: The Role of Salicylic Acid*. *The Plant Journal* 17(6):603-614.
- Rao, M.V., Paliyath G., dan Ormrod D.P. 1996. *Ultraviolet-B- and Ozone-induced Biochemical Changes in Antioxidant Enzymes of Arabidopsis thaliana*. *Plant Physiol* 110(1):25-36.
- Santoso, E. 2014. *Teknologi Bioinduksi Jamur Pembentuk Gaharu*. Forda Press. Bogor.
- Santoso, Erdi, Ragil S.B.I., Maman T., Irnayuli R.S., Sugeng S., Najmulah, Ahmad Y., dan Aryanto. 2010. *Pengembangan Teknologi Produksi Gaharu Berbasis Pemberdayaan Masyarakat. Teknologi Induksi Pohon Penghasil Gaharu*. Kementerian Kehutanan. Badan Penelitian dan Pengembangan Kehutanan. Pusat Penelitian dan Pengembangan Hutan dan Konservasi Alam. 77-96. Bogor.
- Shmulsky, R. dan Jones P.D. 2011. *Forest Products and Wood Science: An Introduction Sixth Edition*. Blackwell Publishing. Iowa.
- Shirsat, A.H, Gatehouse J.A., dan Robinson N.J. 1999. *Plant Biochemistry and Molekular Second edition*. John Wiley and Sons. Chichester.
- Siran, S.A. 2010. *Pengembangan Teknologi Produksi Gaharu Berbasis Pemberdayaan Masyarakat*. Perkembangan Pemanfaatan Gaharu. Kementerian Kehutanan. Badan Penelitian dan Pengembangan Kehutanan. Pusat Penelitian dan Pengembangan Hutan dan Konservasi Alam. 1-29. Bogor.
- Siran, S.A. 2011. *Perkembangan Pemanfaatan Gaharu*. Siran SA dan Turjaman M (eds). *Pengembangan Teknologi Produksi Gaharu Berbasis Pemberdayaan Masyarakat Sekitar Hutan*. Pusat Penelitian dan Pengembangan Hutan dan Konservasi Alam. Pp 1-29. Bogor.
- Sitepu, I.R., Santoso E., dan Turjaman M. 2011. *Identification of Eaglewood(Gaharu) Tree Species Susceptibility*. Technical Report No.1 ITTO PD425/06 Rev. 1 (1) Production and Utilization Technology for Sustainable Development of Eaglewood (Gaharu) in Indonesia. Badan Penelitian dan Pengembangan Kehutanan, Kementerian Kehutanan, Indonesia.
- Sumarna, Y. 2002. *Budidaya Gaharu*. Swadaya. Jakarta.

- Susilo, A., Titi K., dan Erdy S. 2014. *Status Taksonomi dan Populasi Jenis-jenis Aquilaria dan Gyrinops*. Pusat Penelitian dan Pengembangan Konservasi dan Rehabilitasi dengan International Tropical Timber Organization (ITTO) - CITES Phase II Project. Kementerian Kehutanan. Bogor, Indonesia.
- Tiyasa, N.P. 2017. *Pengaruh Lama Perlakuan dan Konsentrasi Hormon Methyl Jasmonate terhadap Pembentukan Kayu pada Semai Tumbuhan Penghasil Gaharu (*Gyrinops Versteegii* (Gilg.) Domke)* (Skripsi). Fakultas Kehutanan. Universitas Gadjah Mada. Yogyakarta.
- Triadriati, T., Diana A.C., dan Miftahudin. 2016. *Induksi Pembentukan Gaharu Menggunakan Berbagai Media Tanam dan Cendawan *Acremonium* sp. dan *Fusarium* sp. pada *Aquilaria crassna**. Jurnal Sumberdaya Hayati 2(1):1-6.
- Vijayan, P., Jay S., C. Andre L., R. James C., dan John B. 1998. *A Role for Jasmonate in Pathogen Defence of Arabidopsis*. Proc Natl Acad Sci 95: 7209-7214.
- Wahyudi. 2013. *Buku Pegangan Hasil Hutan Bukan Kayu*. Pohon Cahaya. Yogyakarta.
- Widyastuti, F.R. 2009. *Pengaruh Etilen Dalam Menginduksi Pembentukan Senyawa Terpenoid Pada Pohon Gaharu (*Aquilaria microcarpa*)*. Skripsi. Fakultas Matematika dan Ilmu Pengetahuan Alam. Institut Pertanian Bogor. Bogor.
- Wiedenhoeft, A. 2010. *Wood Handbook, Chapter 03: Structure and Function of Wood*. U.S. Department of Agriculture, Forest Service, Forest Products Laboratory. Madison.
- Winarsih, A., Fifi P., M. Amrul K. 2011. *Pengaruh Stressing terhadap Percepatan Pembentukan Gubal Gaharu pada Tanaman Gaharu (*Aquilaria malaccensis*, Lamk)*. Agrotechnology Department, Agriculture Faculty, University of Riau. Riau.
- Wobbe, K.K., dan Klessig D.F. 1996. *Salicylic Acid-an Important Signal in Plants*. Signal Transduction in Plant Growth and Development, pp. 167-196. USA.
- Wyn, L.T. dan Anak N.A. 2010. *Wood for Trees: A Review of Agarwood (*Gaharu*) Trade in Malaysia*. Selangor TRAFFIC Southeast Asia.
- Yamamoto, F. dan Kozlowski T.T. 1987. *Effect of Ethrel on Growth and Stem Anatomy of *Pinus halepensis* Seedlings*. IAWA Bull n.s. 8: 11-19

Yamamoto, F., Angeles S., dan Kozlowski T.T.1987. *Effect of Ethrel on Stem Anatomy of Ulmus americana Seedlings*. IAWA Bull n.s. 8: 3-9.

Yang, Y., Shah J., dan Klessig D.F. 1997. *Signal Perception and Transduction in Plant Defense Response*. *Genes Dev* 11: 1621- 1639.

Yuan, Q.S. 1995. *Aquilaria Species : In Vitro Culture and Production of Eaglewood (Agarwood)*. Di dalam: Bajaj YPS, editor. *Biotechnol Agric Forest* 33. Volume ke-15. Springer. Hlm: 36-46. New York.

Zheng, Y., Biao P., dan Takao I. 2015. *Chemical Induction of Traumatic Gum Ducts in Chinese Sweetgum, Liquidambar formosana*. *IAWA journal* 36 (1), 58-68.