DAFTAR PUSTAKA

Agrios, G.N. 2005. Plant Pathology, 5th ed. Academic Press, New York.

Amrulloh, M.K., H.S. Addy & W.S. Wahyuni. 2021. Karakterisasi fisiologis dan biokimia penyebab penyakit bakteri pembuluh kayu pada tanaman cengkih (*Syzygium aromaticum* L.) di PT Tirta Harapan. Jurnal Proteksi Tanaman Tropis. 2 (1): 1-7.

Badan Pusat Statistik. 2022. Produksi Perkebunan Rakyat Menurut Jenis Tanaman (Ribu Ton), 2021. BPS RI, Jakarta. <https://www.bps.go.id/id/statistics-table/2/NzY4IzI=/produksi-perkebunan-rakyat-menurut-jenis-tanaman.html>. Diakses pada 16 Januari 2024.

Barros, J., H. Serk, I. Granlund & E. Pesquet. 2015. The cell biology of lignificationin higher plants. Ann Bot 115: 1053-1074.

Bennett, C.P.A., P. Hunt & A. Asman. 1985. Association of a xylem-limited bacterium with Sumatra disease of cloves in Indonesia. Plant Pathology. 34: 487-494.

Bennett, C.P.A., P. Jones & P. Hunt. 1987. Isolation, culture and ultrastructure of a xylem-limited bacterium associated with Sumatra disease of cloves. Plant Pathology. 36 (1): 45-52.

Danaatmadja, Y., S. Subandiyah, T. Joko & C.U. Sari. 2009. Isolasi dan karakterisasi *Ralstonia syzygii*. Jurnal Perlindungan Tanaman Indonesia. 15 (1): 7-12.

Direktorat Jenderal Perkebunan. 2021. Statistik Perkebunan Unggulan Nasional 2020-2022. Kementerian Pertanian.

Djafaruddin, A. Hanafiah, D. Suud, M. Syafruddin & Mardinus. 1979. Penelitian penyebab utama mati massal (*mass decline*) pada tanaman cengkeh di Sumatera Barat. Fakultas Pertanian Universitas Andalas, Padang. 23: 83-96.

Eden-Green, S.J., R. Balfas & T. Sutarjo. 1992. Characteristics of the transmission of Sumatra disease of cloves by tube-building cercopoids, *Hindola* spp. Plant Pathology. 41: 702-712.

Edy, N., A. Anshary, I. Lakani, F. Balosi & N. Zahlin. 2022. Rapid detection of *Ralstonia syzygii* subsp. *syzygii* on cloves vascular disease and identification potential alternate host. Asia-Pacific Journal of Science and Technology. 28 (2): 1-7.

Frank, J. A., C.L. Reich, S. Sharma, J.S. Weisbaum, B.A. Wilson & G.J. Olsen. 2008. Critical evaluation of two primers commonly used for amplification of bacterial 16S rRNA genes. Applied and Enviromental Microbiology. 74 (8): 2461-2470.

Hadiwidjaja, T. 1956. Matibudjang disease of the clove tress. Contribution of the General Agricultural Research Station, Bogor. 143, 73 p.

Hariyadi, B.W. 2017. Analisis kehilangan hasil pada tanaman cengkeh akibat serangan bakteri pembuluh kayu cengkeh (BPKC) studi kasus di Kecamatan Wonosalam Kabupaten Jombang. Gontor AGROTECH Science Journal. 3 (1): 23-54.

Herdiyantoro, D., M.R. Setiawati & T. Simarmata. 2022. Reaksi hipersensitif daun tembakau oleh isolat bakteri pelarut kalium pada praformulasi pupuk hayati. Soilrens. 20 (2): 72-77.

Islami, B.D., Suryanti & T. Joko. 2023. Characteristics of soil transmission of *Ralstonia syzygii* subsp. *syzygii,* the cause of Sumatra disease of clove in Indonesia. Asian Journal of Plant Sciences. 22 (3): 538-546.

Joko, T., A.P. Yuantomoputro, R. Indrawati, A. Soffan & S. Subandiyah. 2023. Field and laboratory detection of clove Sumatra disease caused by *Ralstonia syzygii* subsp. *syzygii* in Java, Indonesia. Pertanika Journal Tropical Agriculture Science. 46 (3): 799-813.

Kerr, A. & K. Gibb. 1997. Bacteria and phytoplasma as plant parasites. In: Brown, J.S. & H.J. Ogle (eds.). Plant pathogens and plant disease. Australian Plant Pathology Society, Armidale.

Laili, N., T. Mukaihara, H. Matsui, M. Yamamoto, Y. Noutoshi, K. Toyoda & Y. Ichinose. 2021. Role of trehalose synthesis in *Ralstonia syzygii* subsp. *indonesiensis* PW1001 in inducing hypersensitive response on eggplant (*Solanum melongena* cv. Senryo-nigou). Plant Pathol. J. 37 (6): 566-579.

Lee, M-H., H.S. Jeon, S.H. Kim, J.H. Chung, D. Roppolo, H-J. Lee, H.J. Cho, Y. Tobimatsu, J. Ralph & O.K. Park. 2019. Lignin-based barrier restricts pathogens to the infection site and confers resistance in plants. The EMBO Journal 38: 1-17.

Lomer, C.J., S.J. Eden-Green, E.R. Boa & Supriadi. 1992. Evidence for a forest origin of Sumatra disease of cloves. *Trop. Sci.* 32: 95-98.

Lomer, C.J., A.B. Stride & R. Balfas. 1993. The biology of *Hindola* spp. (Homoptera: Machaerotidae) vectors of Sumatra disease of clove and some related species in Indonesia. Bulletin of Entomological Research. 83: 213-219.

Nutman, F.J. & F.M. Roberts. 1971. The clove industry and diseases of the clove tree. PANS. 17: 147-165.

Prakoso, A. B., T. Joko, A. Soffan, J.P. Sari, J.D. Ray, A. Drenth & S. Subandiyah. 2022. Draft genome sequence of *Ralstonia syzygii* subsp. *celebesensis* from Indonesia, the causal agent of blood disease of banana. Phytopathology. 112 (7): 1584-1586.

Prior, P., F. Ailloud, B.L. Dalsing, B. Remenant, B. Sanchez & C. Allen. 2016. Genomic and proteomic evidence supporting the division of the plant pathogen *Ralstonia solanacearum* into three species. BMC Genom. 17: 1-11.

Purcell, A.H. 1979. Leafhopper vectors of xylem borne plant pathogens. In: Leafhopper Vectors and Plant Disease Agents (Ed. by K. Maramorosch & K. E. Harris). Academic Press, New York. pp. 603-625.

Roberts, S.J., S.J. Eden-Green, P. Jones & D.J. Ambler. 1990. *Pseudomonas syzygii,* sp.nov., the cause of sumatra disease of cloves. Systematic and Applied Microbiology. 13 (1): 34-43.

Safni, I., I. Cleenwerck, P.D. Vos, M. Fegan, L. Sly & U. Kappler. 2014. Polyphasic taxonomic revision of the *Ralstonia solanacearum* species complex: proposal to emend the descriptions of *Ralstonia solanacearum* and *Ralstonia syzygii* and reclassify current *R. syzygii* strains as *Ralstonia syzygii* subsp*. syzygii* subsp. nov., *R. solanacearum* phylotype IV strains as *Ralstonia syzygii* subsp. *indonesiensis* subsp. nov., banana blood disease bacterium strains as *Ralstonia syzygii* subsp. *celebesensis* subsp. nov. and *R. solanacearum*

phylotype I and III strains as *Ralstonia pseudosolanacearum* sp. nov. Systematic and Evolutionary Microbiology. 64: 3087-3103.

Safni, I., S. Subandiyah & M. Fegan. 2018. Ecology, epidemiology and disease management of *Ralstonia syzygii* in Indonesia. Frontiers in Microbiology. 9 (419): 1-11.

Semangun, H. 2000. Penyakit-Penyakit Tanaman Perkebunan di Indonesia. Gadjah Mada University Press, Yogyakarta. 835 p.

Simatupang, D. 2008. Berbagai Mikroorganisme Rizosfer pada Tanaman Pepaya di Pusat Kajian Buah-Buahan Tropika IPB Desa Ciomas, Kecamatan Pasir Kuda Kabupaten Bogor, Jawa Barat. Institut Pertanian Bogor, Bogor.

Supriyadi. 1995. Karakteristik *Pseudomonas solanacearum, P. syzygii* dan Bakteri Penyebab Penyakit Darah (*blood disease bacterium*) pada Pisang. p. 557-581. *Kongres Nasional XIII dan Seminar Ilmiah Perhimpunan Fitopatologi Indonesia*.

Trianom, B., T. Arwiyanto & T. Joko. 2018. Perancangan primer spesifik subspesies berbasis gen endoglukanase untuk deteksi *Ralstonia syzygii* subsp. *syzygii*. Jurnal Perlindungan Tanaman Indonesia. 22 (2): 124-131.

Tulungen, F.R. 2019. Cengkih dan manfaatnya bagi kesehatan manusia melalui pendekatan competitive intelligence. Biofarmasetikal Tropis. 2 (2): 158-169.

Vaneechoutte, M., P. Kampfer, T. De Baere, E. Falsen & G. Verscharaegen. 2004. *Wautersia* gen. nov., a Novel Genus Accomodating the Phylogenetic Lineage Including *Ralstonia eutropha* and Related Species, and Proposal of *Ralstonia* [*Pseudomonas*] *syzygii* (Roberts *et al.,* 1990) comb. nov. *International Journal of Systematic and Evolutionary Microbiology.* 54: 317-327.

Waller, J.M. & D. Sitepu. 1975. Sumatra disease of cloves in Indonesia. PANS Pest Articles & News Summaries. 21 (2): 141-147.

Wilson, M.R. & J.A. Sitepu. 2021. Insect Vectors of Plant Disease. *Amgueddfa Cymru - National Museum Wales*.