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# DAFTAR PUSTAKA

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

Aji, O. R., Y. A. Adi, U. Salamah, S. Z. Ardi, dan B. Haryadi. 2024. Pelatihan pengendalian organisme pengganggu tanaman (OPT) pada budidaya pisang di Kelurahan Serut Kabupaten Gunungkidul. *KACANEGARA Jurnal Pengabdian pada Masyarakat* 7(4): 449–457. https://doi.org/10.28989/kacanegara.v7i4.2224

Akbar, M. F. 2017. Analisa kontribusi sektor pertanian terhadap Perekonomian Indonesia. Jurnal Ilmu Ekonomi dan Sosial. 8(2): 150-166. https://doi.org/10.35724/jies.v8i2.649

Alexander, B., D. J. Browse, S. J. Reading, and I. S. Benjamin. 1999. A simple and accurate mathematical method for calculation of EC50. Journal of Pharmalogical and Toxicology Methods. 41: 55-58. https://doi.org/10.1016/S1056-8719(98)00038-0

Andriani, Ratna, dan M. S. Rahayu. 2023. Pertumbuhan dan produksi pisang cavendish dataran tinggi di Blitar, Jawa Tengah. Buletin Agrohorti. 11(3): 323-330. https://doi.org/10.29244/agrob.v11i3.49366

Anita, S. H., Nurhayat, O. D., Zulfiana, D., Putra, I. P., & Yanto, D. H. Y. (2024). Effect of contact-pesticide mancozeb on the growth, enzyme production, and morphology of white-rot fungi isolated from Berbak-Sembilang, Indonesia. *International Journal of Agriculture and Biology*, 31(2), 147–154. https://doi.org/10.17957/IJAB/15.2126

Arsensi, I., dan A. Rofik. Inventarisasi dan identifikasi cendawan pathogen pada tanaman pisang rutai (*musa borneensis*). Ziraa'ah. 40(2): 129-139. https://doi.org/10.31602/zmip.v40i2.148

Aurelia, R., D. Kurniati, dan J. P. Hutajulu. 2022. Daya saing ekspor pisang Indonesia di negara tujuan ekspor periode 2000-2019. Journal of Indoneisan Agribisness. 10(2): 335-349. https://doi.org/10.29244/jai.2022.10.2.335-349

Aguilar-Barragan, A., A. E. Garcia-Torres, O. Odriozola-Casas, G. Macedo-Raygoza, T. Ogura, G. Manzo-Sanchez, dan M. J. Beltran-Garcia. 2014. Chemical management in fungicide sensitivity of *Mycosphaerella fijiensis* collected from banana fields in México. *Brazilian Journal of Microbiology* 45(1): 359–364. https://doi.org/10.1590/S1517-83822014000100051

Bartlett, D. W., J. M. Clough, J. R. Godwin, A. A. Hall, M. Hamer, and B. Parr-Dobrzanski. 2002. The strobilurin fungicides. Pest Management Science 58(7): 649-662. https://doi.org/10.1002/ps.520

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**Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/**

Brent, K.J. dan D.W. Hollomon. 2007. Fungicide Resistance: The Assessment of Risk. FRAC Monograph No. 2. 2nd ed. CropLife International, Brussels.

Business Queensland. 2025. https://www.business.qld.gov.au/industries/farms-fishing-forestry/agriculture/biosecurity/plants/priority-pest-disease/black-sigatoka. Diakses pada tanggal 19, Oktober 2025.

Chong, P., J. N. Essoh, R. E. Arango Isaza, P. Keizer, I. Stergiopoulos, M. F. Seidl, et al. 2021. A world-wide analysis of reduced sensitivity to DMI fungicides in the banana pathogen Pseudocercospora fijiensis. Pest Management Science 77: 3273–3288. https://doi.org/10.1002/ps.6372

Churchill, A. C. L. 2011. *Pseudocercospora fijiensis*, the black leaf streak pathogen of banana: progress towards understanding pathogen biology and detection, disease development, and the challenges of control. Molecular Plant Pathology. 12(4): 307-328. https://doi.org/10.1111/j.1364-3703.2010.00672.x

Cohen, Y., dan M. D. Coffey. 1986. Systemic fungicides and the control of oomycetes. *Annual Review of Phytopathology* 24: 311–338. https://doi.org/10.1146/annurev.py.24.090186.001523

Corkley, I., Fraaije, B., & Hawkins, N. 2022. Fungicide resistance management: Maximizing the effective life of plant protection products. *Plant Pathology* 71: 150–169. https://doi.org/10.1111/ppa.13467

Edouard, Y. K. J., N. P. Henri, T. Seydou, G. N. Betrand, C. Brahima, K. K. F. Jean-martial, and K. Daouda. 2025. Suspecibility of *Pseudocercospora fijiensisis* to mefentrifluconazole in industrial banana plantations in Cote d'lvoire: an in vitro study. Annual Research and Review Biology 40(1): 62-73. https://doi.org/10.9734/arrb/2025/v40i12190

Fungicide Resistance Action Committee. 2024. *FRAC Code List 2024: Fungal control agents sorted by cross-resistance pattern and mode of action*. FRAC.

Gomes, L. I. S., L. B. J. Bibiano, G. F. Silva, R. E. Hanada, and E. S. G. Mizubuti. 2014. Baseline sensitivity of Brazilian *Pseudocercospora fijiensisis* isolate to protectant and systemic fungicides. Tropical Plant Pathology 39(2): 172-177. https://doi.org/10.1590/S1982-56762014000200008

Gullino, M.L., D. Leroux, and C.M. Chester. 2010. Mancozeb: past, present and future. Plant Disease 94(9): 1076–1087. https://doi.org/10.1094/PDIS-94-9-1076

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**Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/**

Isna, F. N., F. Riana, S. H. A. Ikhsan, dan C. Hermanto. 2022. Sistem pakar diagnosis penyakit dan hama tanaman pisang menggunakan case based reasoning. Jurnal Teknik Informatika. 10(1): 41-50. https://doi.org/10.32832/krea-tif.v10i1.6735

Jamaluddin, M. A., W. D. Widodo, dan K. Suketi. 2019. Pengelolaan Perkebunan pisang cavendish komersial di Lampung Tengah, Lampung. Buletin Agrohorti. 7(1): 16-24. https://doi.org/10.29244/agrob.v7i1.24650

Klittich, C. J. R. 2008. Milestones in fungicide discovery: Chemistry that changed agriculture. *Plant Health Progress* 9(1). https://doi.org/10.1094/PHP-2008-0418-01-RV

Leroux, P. dan M. Walker. 2011. Multiple mechanisms account for resistance to sterol 14α-demethylation inhibitors in field isolates of Botrytis cinerea. Pest Management Science 67(1): 44–52. https://doi.org/10.1002/ps.2028

Long, J. W., dan M. R. Siegel. 1975. Mechanism of action and fate of the fungicide chlorothalonil in biological systems. 2. In vitro reactions. *Pesticide Biochemistry and Physiology*. https://doi.org/10.1016/0009-2797(75)90069-1

López-Zapata, S. P., & Castaño-Zapata, J. (2020). In vitro effect of four fungicides on *Colletotrichum gloeosporioides* causing anthracnose on the Red Globe grape variety. *Revista de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales*, 44(172), 747–758. https://doi.org/10.18257/raccefyn.1139

Lucas, S. S., and K. E. Jomanga. 2021. The status of banana production in Tanzania; a review of threats and opportunities. International Journal if Current Science Research and Review. 4(10): 1260-1275. https://doi.org/10.47191/ijcsrr/V4-i10-10

Malandrakis, A. A. Z. A. Apostolidou, A. Markglou, and F. Flouri. 2015. Fitness and cross-resistance of *Alternaria alternata* field isolates with specific or multiple resistance to single site inhibitors and mancozeb. European Journal of Plant Pathology. 142(3): 489-499. https://doi.org/10.1007/s10658-015-0628-5

Mudin, N. A., Hidayat, S. H., Widodo, & Wiyono, S. (2024). Morphological and molecular identification of *Pseudocercospora* species associated with Sigatoka disease complex of banana in Indonesia. *Biodiversitas Journal of Biological Diversity*, 25(5), 1806–1814. https://doi.org/10.13057/biodiv/d250503

Mujiyo, H. Widjanto, A. Herawati, F. Rochman, dan R. Rafirman. 2017. Potensi lahan untuk budidaya pisang di Kecamatan Jenawi Karanganyar. Journal of Sustainable Agriculture. 32(2): 142-148. https://doi.org/10.20961/carakatani.v32i2.17020

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**Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/**

Ningkeula, E. S. 2022. Dampak serangan penyakit pada tanaman pisang kepok (*Musa paradisiaca* forma typica) di Kabupaten Buru. Uniqbu Journal of Exact Sciences. 3(3): 12-18. https://doi.org/10.47323/ujes.v3i3.256

Oliveira, T. Y. K., T. C. Silva, S. I. Moreira, F. S. Christiano Jr., M. C. G. Gasparoto, B. A. Fraaije, and P. C. Ceresini. 2022. Evidence of resistance to QoI fungicides in contemporary populations of *Mycosphaerella fijiensis*, *M. musicola* and *M. thailandica* from banana plantations in Southeastern Brazil. *Agronomy* 12: 2952. https://doi.org/10.3390/agronomy12122952

Ranjha, M. M. A. N., S. Irfan, M. Nadeem, and S. Mahmood. 2022. A comprehensive review on nutritional value, medicinal uses, and processing of banana. Food Reviews International. 38(2): 199-225. https://doi.org/10.1080/87559129.2020.1725890

Vega, M. E. A., J. L. O. Vargas, E. M. Machado, A. S. Riveros, R. A. Isaza. 2020. Strategies for integrated management of black sigatoka in banana. https://old.fontagro.org/new/proyectos/desarrollo-de-cultivares-de-platano-resistentes-a/en. Diakses pada tanggal 17 Oktober 2025.

Washington, J.R., J. Cruz, F. Lopez, dan M. Fajardo. 1998. Infection studies of Pseudocercospora fijiensis on banana and the control of Black Sigatoka with chlorothalonil. Plant Disease 82(11): 1185–1190. https://doi.org/10.1094/PDIS.1998.82.11.1185

Widiastuti, A., A. W. Santosa, A. N. Hidayat, A. Wibowo, and A. Priyatmojo. 2025. Cytochrome b Gene Analysis for pyraclostrobin-resistant *Colletotrichum asianum* in mango unveils unanticipated F129L mutation caused by TTA SNP. Research in Plant Disease. 31(2): 158-168. https://doi.org/10.5423/RPD.2025.31.2.158