DAFTAR PUSTAKA

Abbassi, B. E., &Shquirat, W. D. (2008). Kinetics of indigenous isolated bacteria used forex-situ bioremediation of petroleum contaminated soil. Water, Air, and Soil Pollution, 192, 221-226.

Anastassiades, M., Scherbaum, E., & Bertsch, D. 2003. Validation of a simple and rapidmultiresidue method (QuEChERS) and its implementation in routine pesticide analysis. In *MGPR Symposium: Aix en Provence, France* (Vol. 7).

Badan Pusat Statistik Kabupaten Sleman. 2019. Kecamatan Pakem dalam Angka. BPS Kabupaten Sleman. Yogyakarta.

Badan Pusat Statistik Kabupaten Sleman. 2021. Kabupaten Sleman dalam Angka. BPS Kabupaten Sleman. Yogyakarta.

Bangar, V. R., Kolase, S. V., Sable, S. B., & Latake, S. B. (2020). Screening for fungicide degrading potential of isolated bacterial strains and identification of potent degrading strains. Journal of Pharmacognosy and Phytochemistry, 9(6), 201-206.

Bhatt, D., Srivastava, A., Srivastava, P. C., & Sharma, A. 2023. Evaluation of three novel soil bacterial strains for efficient biodegradation of persistent boscalid fungicide: Kinetics and identification of microbial biodegradation intermediates. *Environmental Pollution*, *316*, 120484.

Chang, Y. T., Lee, J. F., & Chao, H. P. 2007. Variability of communities and physiological characteristics between free-living bacteria and attached bacteria during the PAH biodegradation in a soil/water system. *European Journal of Soil Biology*, *43*(5-6), 283-296.

Chen, S., Chang, C., Deng, Y., An, S., Dong, Y. H., Zhou, J., Zhang, L. H. 2014. Fenpropathrin biodegradation pathway in Bacillus sp. DG-02 and its potential for bioremediation of pyrethroid-contaminated soils. *Journal of Agricultural and Food Chemistry*, *62*(10), 2147-2157.

Chen, X., Peng, S., Liu, M., Wang, L., Pang, K., Zhang, L., Liu, A. 2023. Highly efficient in-situ cleaner degradation of difenoconazole by two novel dominant strains: Microflora diversity, monoclonal isolation, growth factor optimization, intermediates, and pathways. *Chemosphere*, *310*, 136863.

Cheng, J., Lee, X., Gao, W., Chen, Y., Pan, W., & Tang, Y. 2017. Effect of biochar onthe bioavailability of difenokonazol and microbial community composition in apesticide-contaminatedsoil.*Applied Soil Ecology*,*121*, 185-192.

Damayanti, N. F. (2016). Pengaruh Penambahan Bakteri Pseudomonas Aeruginosa Terhadap Biodegradasi Ddt Oleh Jamur Pelapuk Coklat Gloeophyllum Trabeum (Doctoral dissertation, Institut Teknologi Sepuluh Nopember Surabaya).

De Figueirêdo, L. P., Athayde, D. B., Daam, M. A., van Gestel, C. A., da Silva Guerra, G., Duarte-Neto, P. J., & Espíndola, E. L. 2020. Impact of temperature on the toxicity of Kraft 36 EC® (as abamectin) and Score 250 EC® (as difenoconazole) to soil organisms under realistic environmental exposure scenarios. *Ecotoxicology and Environmental Safety*, *194*, 110446.

Dong, Y., Yan, X., Lu, F., Guo, M., Zhuang, Y., 2015. Development and Optimization of an

Unstructured Kinetic Model for Sodium Gluconate Fermentation Process. Comput. Mater. Continua 48 (1), 43–55. https://doi:10.3970/cmc.2015.048.043.

European Food Safety Authority, 2011. Conclusion on the peer review of the pesticide risk assessment of the active substance difenokonazol. EFSA J. 9(1), 1967-1967.

Fan, R.; Zhang, W.; Jia, L.; Li, L.; Zhao, J.; Zhao, Z.; Peng, S.; Chen, Y.; Yuan, X.Combineddevelopmentaltoxicityofthepesticidesdifenokonazolanddimethomorphon embryonic zebrafish. Toxins 2021,13, 854.

Filimon, M. N., Popescu, R., Verdes, D., Dumitrescu, G., Voia, O. S., Ahmadi, M., &Dronca, D. (2018). The effects of difenokonazol treatment on microorganism fromsoil.*communities*, *14*(17), 20.

Greene, E. A., Kay, J. G., Jaber, K., Stehmeier, G., &Voordouw, G. (2000). Composition of soil microbial communities enriched on a mixture of aromatic hydrocarbons. Applied and Environmental Microbiology, 66 (12), 5282–5289

Halmi, M.I.E., Shukor, M.S., Shukor, M.Y., 2014. Evaluation of several mathematical models for fitting the growth and kinetics of the catechol-degrading Candida parapsilopsis: part 2. J. Environ. Bioremed. Toxicol. 2 (2), 53–57. https://journal. hibiscuspublisher.com/index.php/JEBAT/article/view/218.

He, M., Jia, C., Zhao, E., Chen, L., Yu, P., Jing, J., Zheng, Y. 2016. Concentrations and dissipation of difenoconazole and fluxapyroxad residues in apples and soil, determined by ultrahigh-performance liquid chromatography electrospray ionization tandem mass spectrometry. *Environmental science and pollution research*, *23*, 5618-5626.

Heo, J., Park, I., You, J., Han, B. H., Kwon, S. W., Lee, S. W., & Ahn, J. H. (2019). Genome analysis of Sphingomonas histidinilytica C8-2 degrading a fungicide difenoconazole. 55(4), 428-431.

Huang, Y., Chen, W. J., Li, J., Ghorab, M. A., Alansary, N., El-Hefny, D. E., ... & Chen, S. (2022). Novel mechanism and degradation kinetics of allethrin using Bacillus megaterium strain HLJ7 in contaminated soil/water environments. Environmental Research, 214, 113940.

Janda, J. M. and Abbott, S. L. 2007. 16S rRNA gene sequencing for bacterial identification in the diagnostic laboratory: Pluses, perils, and pitfalls. Journal of Clinical Microbiology, 45(9): 2761–2764.

Kalay, A.M., Patty, J., & Sinay, M. (2015). Perkembangan Alternaria solani pada tiga varietas tanaman tomat. Jurnal Agrikultura, 26(1), 1-6. https://doi. org/10.24198/agrikultura. v26i1.8455

Kang, Y. S., Kim, Y. J., Jeon, C. O., & Park, W. J. 2006. Characterization of naphthalene-degrading Pseudomonas species isolated from pollutant-contaminated sites: oxidative stress during their growth on naphthalene. *Journal of microbiology and biotechnology*, *16*(11), 1819-1825.

Kesavachandran, C. N., Fareed, M., Pathak, M. K., Bihari, V., Mathur, N., Srivastava, A. K. 2009. Adverse health effects of pesticides in agrarian populations of developing countries. *Reviews of environmental contamination and toxicology Vol 200*, 33-52.

Khalidah Ab, L., Nor Kartini, A.B., Nurzawani Md, I., 2010. Preliminary study of difenokonazol residues in ricepaddy water sheds.Malays. J. Sci. 29 (1),73–79.

Khatoon,H., &Rai,J.P.N.2020.Optimizationstudiesonbiodegradation ofatrazinebyBacillus badius ABP6 strain using response surface methodology. *Biotechnologyreports*,*26*, e00459.

Latiff, Khalidah Ab, Nor Kartini Abu Bakar, and Nurzawani Md Isa. "Preliminary Study of Difenoconazole Residues in Rice Paddy Watersheds." *Malaysian Journal of Science* 29.1 (2010): 73-79.

Le Borgne, S., Paniagua, D., & Vazquez-Duhalt, R. 2008. Biodegradation of organicpollutantsbyhalophilicbacteriaandarchaea.*MicrobialPhysiology*, *15*(2-3),74-92.

Luong, T. T., Nguyen, T. H. T., Nguyen, T. D., Pham, T. H. T., Ho, T. T., Nguyen, N. L. 2024. Degradation of Triazole Fungicides by Plant Growth-Promoting Bacteria from Contaminated Agricultural Soil. *Journal of Microbiology and Biotechnology*, *34*(1), 56.

Maier, R.M., Pepper, I.L., 2015. Bacterial growth. Environmental Microbiology. Academic Press, pp. 37–56. https://doi.org/10.1016/B978-0-12-394626-3.00003-X.

Man, Y., Stenrød, M., Wu, C., Almvik, M., Holten, R., Clarke, J. L., ... & Liu, X. 2021.Degradation of difenokonazol in water and soil: Kinetics, degradation pathways,transformationproductsidentificationandecotoxicityassessment.*JournalofHazardous Materials*, *418*, 126303.

Man, Y., Stenrød, M., Wu, C., Almvik, M., Holten, R., Clarke, J. L., Liu, X. 2021. Degradation of difenoconazole in water and soil: Kinetics, degradation pathways, transformation products identification and ecotoxicity assessment. *Journal of hazardous materials*, *418*, 126303.

Mohanty, M.P., Brahmacharimayum, B., Ghosh, P.K., 2018. Effects of phenol on sulfate reduction by mixed microbial culture: kinetics and bio-kinetics analysis. Water Sci. Technol. 77 (4), 1079–1088. https://doi.org/10.2166/wst.2017.630.

Mu, X., Wang, K., Chai, T., Zhu, L., Yang, Y., Zhang, J., ... & Li, X. 2015. Sex specific response in cholesterol level in zebrafish (Danio rerio) after long-term exposure of difenoconazole. *Environmental Pollution*, *197*, 278-286.

Mu,X.,Pang,S.,Sun,X.,Gao,J.,Chen,J.,Chen,X.,Li,X.,Wang,C.,2013.Evaluationof acute and developmental effects of difenokonazol via multiple stage zebra fish assays.Environ. Pollut. 175, 147–157.

Muloiwa, M., Nyende-Byakika, S., & Dinka, M. (2020). Comparison of unstructured kinetic bacterial growth models. *South African Journal of Chemical Engineering*, *33*, 141-150.

Panikov, N.S., 2009. Kinetics, microbial growth. Encyclopedia of Industrial Biotechnology: bioprocess, Bioseparation, and Cell Technology. pp. 1-34. https://doi. org/10.1002/9780470054581.eib378.

Pemerintah Kabupaten Sleman Provinsi Daerah Istimewa Yogyakarta. 2008. Laporan Status Lingkungan Hidup Kabupaten Sleman. Yogyakarta.

Rafsanjani, M. E. D., Sabdono, A., & Djunaedi, A. 2020. Uji Resistensi Bakteri Karang Galaxea sp. dan Porites sp. terhadap Pestisida Triazofos. Journal of Marine Research, 9(2), 186-192.

Ren, X., Zeng, G., Tang, L., Wang, J., Wan, J., Liu, Y., ... & Deng, R. 2018. Sorption,transport and biodegradation–an insight into bioavailability of persistent organic pollutantsin soil.*Scienceof thetotal environment*, *610*, 1154-1163.

Salunkhe, V. P., Sawant, I. S., Banerjee, K., Wadkar, P. N., Sawant, S. D., & Hingmire, S.

A. 2014. Kinetics of degradation of carbendazim by B. subtilis strains: possibility of in situ detoxification. *Environmental monitoring and assessment*, *186*, 8599-8610.

Satapute, P., & Kaliwal, B. 2016. Biodegradation of propiconazole by newly isolated Burkholderia sp. strain BBK_9. *3 Biotech*, *6*(1), 110.

Shcherbakova, L., Mikityuk, O., Arslanova, L., Stakheev, A., Erokhin, D., Zavriev, S.,Dzhavakhiya, V., 2021. Studying the ability of thymol to improve fungicidal effectsof tebuconazole and difenokonazol against some plant pathogenic fungi in seed orfoliartreatments.Front.Microbiol. 12, 629429.

Sofiyanti, N. and Isda, M. N. 2019. Jenis – jenis tumbuhan paku (Pteridofita) dari Hutan Universitas Riau, Provinsi Riaudan Pola Pita DNA berdasarkan Penanda DNA M13Primer. Biospecies, 12(1): 24–32.

Stackebrandt, E. and Goebel, B. M. 1994. Taxonomic note: A place for DNA-DNA 33 reassociation and 16S rRNA sequence analysis in the present species definition in bacteriology. International Journal of Systematic Bacteriology, 44(4): 846–849.

Su, L., Zhao, J., Liao, C., Wang, H., Xiong, S., Deng, Y., & Gong, D. 2022. Dissipation, Residue Behavior and Dietary Risk Assessment of Difenoconazole on Jujube (Ziziphus jujuba Mill.). *Agronomy*, *12*(12), 3145.

Takagi, K. 2020. Study on the biodegradation of persistent organic pollutants (POPs). *Journal of Pesticide Science*, *45*(2), 119-123.

Tazdaït, D., Salah, R., Grib, H., Abdi, N., Mameri, N., 2018. Kinetic study on biodegradation of glyphosate with unacclimated activated sludge. Int. J. Environ. Health Res. 28 (4), 448–459. https://doi.org/10.1080/09603123.2018.1487043.

Teng, M., Qi, S., Zhu, W., Wang, Y., Wang, D., Yang, Y., Wang, C. 2017. Sex-specific effects of difenoconazole on the growth hormone endocrine axis in adult zebrafish (Danio rerio). *Ecotoxicology and Environmental Safety*, *144*, 402-408.

Teng, M., Zhu, W., Wang, D., Qi, S., Wang, Y., Yan, J., ... & Wang, C. 2018. Metabolomics and transcriptomics reveal the toxicity of difenoconazole to the early life stages of zebrafish (Danio rerio). *Aquatic Toxicology*, *194*, 112-120.

Wang ZH, Yang T, Qin DM, Gong Y, Ji Y. 2008. Determination and dynamics ofdifenokonazolresidues in Chinesecabbageand soil.

Wang, C., Wu, Q., Wu, C., & Wang, Z. 2011. Application of dispersion–solidification liquid–liquid microextraction for the determination of triazole fungicides in environmental water samples by high-performance liquid chromatography. *Journal of Hazardous Materials*, *185*(1), 71-76.

Wang, K., Sun, D. W., Pu, H., & Wei, Q. 2019. Surface-enhanced Raman scattering of core-shell Au@ Ag nanoparticles aggregates for rapid detection of difenoconazole in grapes. *Talanta*, *191*, 449-456.

Wang, S., Zhang, Q., Yu, Y., Chen, Y., Zeng, S., Lu, P., & Hu, D. 2018. Residues, dissipation kinetics, and dietary intake risk assessment of two fungicides in grape and soil. *Regulatory Toxicology and Pharmacology*, *100*, 72-79.

Yun, Y., Yu, F., Wang, N., Chen, H., Yin, Y., Ma, Z., 2012. Sensitivity to silthiofam, tebuconazole and difenokonazol of Gaeumannomyces graminis var. tritici isolates from

China. Pest Manag.Sci. 68, 1156–1163.

Zhang, W., Li, J., Zhang, Y., Wu, X., Zhou, Z., Huang, Y., ... & Chen, S. 2022. Characterization of a novel glyphosate-degrading bacterial species, Chryseobacterium sp. Y16C, and evaluation of its effects on microbial communities in glyphosate-contaminated soil. *Journal of Hazardous Materials*, *432*, 128689.

Zhao, F., Liu, J., Xie, D., Lv, D., & Luo, J. 2018. A novel and actual mode for study of soil degradation and transportation of difenoconazole in a mango field. *RSC advances*, *8*(16), 8671-8677.

Zhou, Y., Chen, F., Wang, L., Wang, P., Wang, T., Bhatt, P., ... & Zhang, W. Biodegradation of Difenoconazole by Pseudomonas Putida A-3: Novel Degradation Pathway and Potential in the Bioremediation of Contaminated Water–Sediment Systems. Available at SSRN 4792540.