

DAFTAR PUSTAKA

- Ali, M., Q. Ali, M. A. Sohail, M. F. Ashraf, M. H. Saleem, S. Hussain, & L. Zhou. 2021. Diversity and taxonomic distribution of endophytic bacterial community in the rice plant and its prospective. *International Journal of Molecular Sciences* 18: 2-28.
- Anjum, N., & R. Chandra. 2015. endophytic bacteria: optimizat on of biakan bakteriion procedure from various medicinal plants and their preliminary characterization. *Asian Journal of Pharmaceutical and Clinical Research* 8: 233-238.
- Bacon, C.W., & D. M. Hinton. 2006. Bacterial endophytes: the endophytic niche, its occupants, and its utility. *Plant-associated bacteria* 12: 155-194.
- Bazzi, W., A. G. A. Fayad, A. Nasser, L. P. Haraoui, O. Dewachi, G. Abou-Sitta, V. K. Nguyen, A. Abara, N.I Karah, H. Landecker, C. Knapp, M. M. McEvoy, M. H. Zaman, P. G. Higgins, & G. M. Matar. 2020. Heavy metal toxicity in armed conflicts potentiates amr in *A. baumannii* by selecting for antibiotic and heavy metal co-resistance mechanisms. *Frontiers in Microbiology* 11: 1-12.
- Bhore, S.J., & G. Sathisha. 2010. Screening of endophytic colonizing bacteria for cytokininlike compounds: crude cell-free broth of endophytic colonizing bacteria is unsuitable in cucumber cotyledon bioassay. *World Journal of Agriculture* 6: 345-52.
- Bowker, D. W., A. N., Duffield, & P. Denny. 1980. Methods for the biakan bakteriion, sterilization and cultivation of *Lemnaceae*. *Freshwater Biology* 10: 385-388.
- Cao, X. H., & G. T. Vu. 2020. Cytogenetics, epigenetics and karyotype evolution of duckweeds. *The Duckweed Genomes* 1: 47-57.
- Culley, D. D., E. Rejmankova, J. Kvet, & J. B. Frye . 1981. Production chemical quality and use of duckweeds (*Lemnaceae*) in aquaculture, waste management and animal feeds. *Journal of the World Aquaculture Society* 12: 27-49.
- Coico, R. 2006. Gram Staining. *Current protocols in microbiology* 1: 11-22.
- Dubois, T., D. Coyne1, E. Kahangi, L. Turoop, & E. W. N. Nsubuga. 2006. Endophyte-enhanced banana tissue culture: technology transfer through public-private partnerships in Kenya and Uganda. *African Technology Development Forum Journal* 3: 18-25.
- Faizy, H. S., S. R. AL-Zubaydi, & M. Nair. 2017. Effect of plant preservative mixture on the shoot regeneration of watercress (*Nasturtium Officinale*). *Science Journal of University of Zakho* 5: 187-192.
- Forni, C., & F. Tommasi. 2015. *Duckweed*: a tool for ecotoxicology and a candidate for phytoremediation. *Current Biotechnology* 4 : 1-10.

- Fortuna, Q. 2022. Isolasi, uji resistansi, dan identifikasi bakteri endofit dari *Lemna Perpusilla* terhadap tembaga divalen (Cu^{2+}). Skripsi. Fakultas Pertanian. Universitas Gadjah Mada. Yogyakarta.
- George, M. W., & R. R Tripepi. 2001. Plant Preservative Mixture™ can affect shoot regeneration from leaf explants of *Chrysanthemum*, European birch, and Rhododendron. Hort Science 36: 768-769.
- Glick, B. R. 2012. Plant growth promoting bacteria: mechanism and applications. Scientifica 1: 11-15.
- Gwaze, F. R., & M. Mwale. 2015. The prospect of duckweed in pig nutrition: a review. Journal of Agriculture Science 7:189-196.
- Hadley, R.C., D. Zhitnitsky, N. L. Levanon, G. Masrati, E. Vigonsky, J. Rose, N.B. Tal, A.C. Rosenzweig, & O. Lewinson. 2021. The copper-linked *Escherichia coli* AZY operon: structure, metal binding, and a possible physiological role in copper delivery. Journal of Biological Chemistry 298: 1-13.
- Harkess, A., F. McLoughlin, N. Bilkey, K. Elliott, R. Emenecker, E. Mattoon, & T.P Michael. 2021. Improved *Spirodela polyrrhiza* genome and proteomic analyses reveal a conserved chromosomal structure with high abundance of chloroplastic proteins favoring energy production. Journal of Experimental Botany 72: 2491-2500.
- Huang, P., L. de-Bashan., T. Crocker., J. W. Kloepper., & Y. Bashan. 2017. Evidence that fresh weight measurement is imprecise for reporting the effect of plant growth-promoting *Rhizobacteria* on growth of crop plants. Biology of Fertile Soils 53: 199-208.
- Indarsih, B., & M. H. Tamsil. 2012. Feeding diets containing different from of duckweed (*Lemna minor*) on productive performance and egg quality ducks. Media Peternakan 35: 128-132.
- Ishizawa, H., M. Kuroda., M. Morikawa., & M. Ike. 2017. Evaluation of environmental bacterial communities as a factor affecting the growth of duckweed *Lemna minor*. Biotechnology for Biofuels 10: 54-62.
- Khairina, Y., R. Jog., C. Boonmak., T. Toyama., T. Oyama., & M. Morikawa. 2021. Indigenous bacteria, an excellent reservoir of functional plant growth promoters for enhancing duckweed biomass yield site. Chemosphere 268 : 1-8.
- Kittiwongwattana, C. & C. Thawai. 2014. *Rhizobium lemnae* sp. nov., a bacterial endophyte of *Lemna aequinocalialis*. International Journal of Systematic and Evolutionary Microbiology 64: 2455-2460.
- Kristiana, I., K. Sembiring, W. P. Astiyani, & A. Tiawati. 2021. Effect of addition of duckweed (*Lemna* sp) and fish meal to feed on growth and survival of Nirwana III Tilapia (*Oreochromis niloticus*). Agrikan Jurnal Agribisnis Perikanan 14: 495-503.

- Landesman, L., N.C. Parker, C.B. Fedler, dan M. Konikoff. 2005. Modeling duckweed growth in wastewater treatment systems. *Livestock Research for Rural Development* 17: 1-6.
- Landolt, E., & R. Kandeler. 1987. Biosystematic investigations in the family of duckweeds (*Lemnaceae*). *Folia Geobotanica Phytotax* 2: 42-43.
- Leng, R. A., J. H. Stambolie, & R. Bell. 1995. Duckweed-a potential high-protein feed resource for domestic animals and fish. *Livestock Research for Rural Development* 7: 31-36.
- Long, H. H., D. D. Schmidt, & I. T. Baldwin. 2008. Native bacterial endophytes promote host growth in a species-specific manner; phytohormone manipulations do not result in common growth responses. *PloS one* 3: 19-27.
- Makino, A., R. Nakai, Y. Yoneda, T. Toyama, Y. Tanaka, X. Y. Meng, K. Mori, M. Ike, M. Morikawa, Y. Kamagata, & H. Tamaki. 2022. Biakan bakteriion of aquatic plant growth-promoting bacteria for the floating plant *duckweed* (*Lemna minor*). *Microorganisms* 10: 1-18.
- Miyazaki, J., B. H. Tan, & S. G. Errington. 2010. Eradication of endophytic bacteria via treatment for axillary buds of *Petunia hybrida* using Plant Preservative Mixture (PPM™). *Plant Cell, Tissue and Organ Culture (PCTOC)* 102: 365-372.
- Nopriani, U., Karti, P. D. M. H., & Prihantoro, I. 2014. Produktivitas duckweed (*Lemna minor*) sebagai hijauan pakan alternatif ternak pada intensitas cahaya yang berbeda. *Jurnal Ilmu Ternak dan Veteriner* 19: 272-286.
- Park, J., H. Lee, & T. Han. 2020. Comparative paraquat sensitivity of newly germinated and mature fronds of the aquatic macrophyte *Spirodela polyrrhiza*. *American Journal of Plant Sciences* 11: 1008-1024.
- Rosariastuti, M. R., A. Pramono, N. Ngadiman, & I. D. Prijambada. 2012. Peran Rhizobakteri dalam fitoekstraksi logam berat kromium pada tanaman jagung. *Ecolab* 6: 1-60.
- Radić, S. D. Stipaničev, P. Cvjetko, M. M. Rajčić, S. Širac, B. Pevalek-Kozlina & M. Pavlica. 2011. *Duckweed Lemna minor* as a tool for testing toxicity and genotoxicity of surface waters. *Ecotoxicology and Environmental Safety* 74: 182-187.
- Rihan, H. Z., M. Al-Issawi, F. Al-swedi, & M. P. Fuller. 2012. The effect of using PPM (*Plant Preservative Mixture*) on the development of cauliflower microshoots and the quality of artificial seed produced. *Scientia Horticulturae* 141: 47-52.
- Romaito, D. A. I., S. Susanna, & L. Hakim. 2023. Eksplorasi dan karakterisasi bakteri endofit asal tanaman padi sawah di Kabupaten Aceh Besar. *Jurnal Ilmiah Mahasiswa Pertanian* 8: 550-564.

- Rovita, G. D., P. W. Purnomo, & P. Soedarsono. 2012. Starifikasi vertikal NO_f -N dan PO -P pada perairan di sekitar eceng gondok (*Eichornia crassipes Solms*) dengan latar belakang penggunaan lahan berbeda di Rawa Pening. *Journal Management of Aquatic Resources* 1:1-7.
- Sahabuddin, & A. M. Tangko. 2008. Pengaruh jarak lokasi budidaya dari garis pantai terhadap pertumbuhan dan kandungan karaginan rumput laut (*Eucheuma cottoni*). *Fisheries of Wallacea Journal* 2: 10-19.
- Said, D. S., T. Chrismadha, N. Mayasari, T. Widiyanto, & A. Ramandita. 2022. Nutritional content and growth ability of duckweed *Spirodela polyrrhiza* on various culture media. *IOP Conference Series: Earth and Environmental Science* 1: 109-120.
- Sari, Y., I. 2022. Uji resistensi dan identifikasi bakteri endofit tanaman *Lemna perpusilla* terhadap kromium heksavalen (Cr⁶⁺). Skripsi. Fakultas Pertanian Universitas Gadjah Mada. Yogyakarta.
- Setiawan E. 2009. Kajian hubungan unsur iklim terhadap produktivitas cabe jamu (*Piper retrofractum Vahl*) di Kabupaten Sumenep. *Agrovigor: Jurnal Agroekoteknologi* 2: 1-7.
- Singh, D., R. Gupta, & A. Tiwari. 2012. Potential of duckweed (*Lemna minor*) for removal of lead from wastewater by phytoremediation. *Journal of Pharmacy Research* 5: 1578-1582.
- Strobel G. A., & B. Daisy. 2003. Bioprospecting for microbial endophytes and their natural products. *Microbiology and Molecular Biology* 67: 491-502.
- Tamam, M. B., A. H. Ramadani, E. M. M. Halma, & C. T. U. Sari. 2021. Inventarisasi tumbuhan akuatik berpotensi fitoremediator air limbah industri di Waduk Bunder Gresik. *BIOTROPIC The Journal of Tropical Biology* 5: 68-73.
- Tan, R. X., & W. X. Zou. 2001. Endophytes: a rich source of functional metabolites. *Natural product reports* 18: 448-459.
- Triatmodjo, B. 2010. *Hidrologi Terapan*. Yogyakarta (Indonesia): Beta Offset.
- Utami, S. P., E. Mulyawati, & D. H. Soebandi. 2016. Perbandingan daya antibakteri disinfektan instrumen preparasi saluran akar natrium hipoklorit 5, 25%, glutaraldehid 2%, dan disinfektan berbahan dasar glutaraldehid terhadap *Bacillus subtilis*. *Jurnal Kedokteran Gigi* 7: 151-156.
- Wang, Q., L. Ma, Q. Zhou, B. Chen, X. Zhang, Y. Wu, F. Pan, L. Huang, X. Yang, & Y. Feng. 2019. Inoculation of plant growth promoting bacteria from 42 hyperaccumulator facilitated non-host root development and provided promising agents for elevated phytoremediation efficiency. *Chemosphere* 234: 769 – 776.
- Widjaja, F. 2004. Pendayagunaan Rotifera yang diberi pakan alami berbagai jenis mikroalgae. *Jurnal Ilmu-ilmu Perairan dan Perikanan Indonesia* 11: 23-27.

- Xu, Y., S. Ma, M. Huang, M. Peng, M. Bog, K. S. Sree, & J. Zhang. 2015. Species distribution, genetic diversity and barcoding in the duckweed family (*Lemnaceae*). *Hydrobiologia* 743: 75-87.
- Yamakawa, Y., R. Jog, & M. Morikawa. 2018. Effects of co-inoculation of two different plant growth-promoting bacteria on duckweed. *Plant growth regulation* 86: 287-296.
- Zampieri, E., E. Franchi, L. Giovannini, F. Brescia, F. Sillo, D. Fusini, & R. Balestrini. 2023. Diverse plant promoting bacterial species differentially improve tomato plant fitness under water stress. *Frontiers in Plant Science* 14: 1288-1297.