

## DAFTAR PUSTAKA

- Acosta, K., K.J. Appenroth, L. Borisjuk, M. Edelman, U. Heinig, M.A.K. Jansen, T. Oyama, B. Pasaribu, I. Schubert, S. Sorrels, K.S. Sree, S. Xu, T.P. Michael, dan E. Lam. 2021. Return of the *Lemnaceae*: duckweed as a model plant system in the genomics and postgenomics era. *The Plant Cell* 3: 3207– 3234.
- Agustin, D. A., E. Q. A'yun, T. I. Marsya, dan R. R. Kusuma. 2021. Potensi *plant growth promoting bacteria* (PGPB) sebagai pemacu ketahanan tanaman padi terbadap hawar padi malai. *Plantropica: Journal of Agricultural Science* 6(2): 96-105.
- Andriani, Y., B. Irawan, Iskandar, I. Zidni, R. Partasasmita. 2019. Short communication: diversity of duckweed (Araceae-Lemnoideae) morphological characteristics and its potentials as food sources for herbivorous fishes in West Java, Indonesia. *Biodiversitas* 20(6): 1617-1623.
- Appenroth, K. J., K. S. Sree, M. Bog, J. Ecker, C. Seeliger, V. Bohm, S. Lorkowski, K. Sommer, W. Vetter, K. Tolzin-Banasch, R. Kirmse, M. Leiterer, C. Dawczynski, G. Liebisch, dan G. Jahreis. 2018. Nutritional value of the duckweed species of the genus *Wolffia* (Lemnaceae) as human food. *Frontiers in Chemistry* 6(483): 1-13.
- Asra, R. H., L. Advinda, A. Anhar, dan Irdawati. 2024. Peran plant growth promoting rhizobacteria (PGPR) dalam pertanian berkelanjutan. *Serambi Biologi* 9(1): 1-7.
- Baek, G. Y., M. Saeed, dan H. K. Choi. 2021. Duckweeds: their utilization, metabolites and cultivation. *The Korean Society for Applied Biological Chemistry* 64(73): 1-15.
- Bahri, S. 2010. Fitoremediasi timbal (Pb) dalam air tercemar oleh tumbuhan air great duckweed (*Spirodela polyrhiza*). *Jurnal Teknik Hidraulik* 6(2): 181-192.
- Basu, A., P. Prasad, S. N. Das, S. Kalam, R. Z. Sayyed, M. S. Reddy, dan H. E. Enshasy. 2021. Plant growth promoting rhizobacteria (PGPR) as green bioinoculants: recent developments, constraints, and prospects. *Sustainability* 13(3): 1-20.
- Boonmak, C., S. Kettongruang, B. Buranathong, M. Morikawa, dan K. Duangmal. 2024. Duckweed-associated bacteria as plant growth-promotor to enhance growth of *Spirodela*

- polyrhiza* in wastewater effluent from poultry farm. Archives of Microbiology 206(43): 1-15.
- Chauhan, P., N. Sharma, A. Tapwal, A. Kumar, G. S. Verma, M. Meena, C. S. Seth, dan P. Swapnil. 2023. Soil microbiome: diversity, benefits and interactions with plants. Sustainability 15(14643): 1-43.
- Hargono, I. Nurcahyaningih, dan P. D. Candra. 2021. Pengaruh delignifikasi basa dan hidrolisis asam dengan penambahan FeSO<sub>4</sub> pada produksi glukosa dari *Spirodela polyrhiza*. Inovasi Teknik Kimia 6(2): 55-59.
- He, Z., C. Yuan, P. Chen, Z. Rong, T. Peng, T. H. Farooq, G. Wang, W. Yan, dan J. Wang. 2023. Soil microbial community composition and diversity analysis under different land use pattern in Taojia River Basin. Forests 14(1004): 1-23.
- Herdiantoro, D., M. R. Setiawati, dan T. Simarmata. 2022. Reaksi hipersensitif daun tembakau oleh isolat bakteri pelarut kalium pada praformulasi pupuk hayati. Soilrens 20(2): 72-77.
- Iqbal, J., A. Javed, dan M. A. Baig. 2019. Growth and nutrient removal efficiency of duckweed (*Lemna minor*) from synthetic and dumpsite leachate under artificial and natural conditions. PLoS ONE 14: 1 – 9.
- Ishizawa, H., M. Kuroda, M. Morikawa, dan M. Ike. 2017. Evaluation of environmental bacterial communities as a factor affecting the growth of duckweed *Lemna minor*. Biotechnology for Biofuels 10(62): 1-10.
- Ishizawa, H., M. Tada, M. Kuroda, D. Inoue, and M. Ike. 2019. Performance of plant growth-promoting bacterium of duckweed under different kinds of abiotic stress factors. Biocatalysts and Agricultural Biotechnology 19(101146): 1-7.
- Jannah, M., R. Jannah, dan Fahrunsyah. 2022. Kajian literatur: penggunaan plant growth promoting bacteria (PGPR) untuk meningkatkan pertumbuhan dan mengurangi pemakaian pupuk anorganik pada tanaman pertanian. Jurnal Agroteknologi Tropika Lembab 5(1): 41-49.



- Kantur, D. dan A. Jehemat. 2023. Produksi dan kandungan nutrisi duckweed sebagai alternatif suplemen pakan ternak dan pupuk organik pada berbagai tingkat intensitas cahaya. *Partner* 2: 745-757.
- Kittiwongwattana, C. dan S. Vuttipongchaikij. 2015. Biodiversity of endophytic bacteria isolated from duckweed (*Landoltia punctata*) and their IAA production. *Thammasat International Journal of Science and Technology* 20(1): 1-11.
- Kumar, V. dan A. Kumar. 2023. *Innovative and Current Advances in Agriculture & Allied Sciences: An Edited Book*. 2<sup>nd</sup> ed. Astha Foundation, Meerut.
- Lengkong S. C., P. Siahaan, dan A. M. Tangapo. 2022. Analisis karakteristik dan uji bioaktivitas bakteri rizosfer PGPR (Plant Growth Promoting Rhizobacteria) isolat Kalasey. *Jurnal Bios Logos* 2(12): 104-113.
- Mwale, M. dan F. R. Gwaze. 2013. Characteristics of duckweed and its potential as feed source for chickens reared for meat production: a review. *Scientific Research Essays* 8(18): 689-697.
- Popa, R., I. C. Moga, M. Rissdorfer, M. L. G. Ilis, G. Petrescu, N. Craciun, M. G. Matache, C. I. Covaliu, dan G. Stoian. 2017. Duckweed utilization for fresh water conservation (management) in recirculated aquaculture systems. *International Journal of Conservative Science* 8(4): 715-722.
- Prescott, C. E., J. Frouz, S. J. Grayston, S. A. Quideau, dan J. Straker. 2019. *Global Change and Forest Soils*. Elsevier, Amsterdam.
- Said, D. S., T. Chrismadha, N. Mayasari, T. Widiyanto, dan A. Ramandita. 2022. Nutritional content and growth ability of duckweed *Spirodela polyrhiza* on various culture media. *Institute of Physics Conference Series: Earth and Environmental Science* 1062(2022): 1-9.
- She, R. C. dan S. M. Butler-Wu. 2023. *Manual of Clinical Microbiology*. 12th ed. ASM Press, Washington, D.C.
- Swarnalakshmi, K., V. Yadav, D. Tyagi, D. W. Dhar, A. Kannepalli, dan S. Kumar. 2020.



Significance of plant growth promoting rhizobacteria in grain legumes: Growth promotion and crop production. *Plants* 9(11): 1-25.

- Toviho, O. A., M. Imane, P. Tunde, dan B. Peter. 2023. Effect of duckweed (*Spirodela polyrhiza*)-supplemented semolina on the production parameters and nutrient composition of yellow mealworm (*Tenebrio molitor*). *Agriculture* 13(1286): 1-15.
- Ullah, H., B. Gul, H. Khan, K. U. Rehman, I. Hameed, U. Zeb, S. Roomi, dan Z. E. Huma. 2023. Impact of pH on the growth and nutritional profile of *Lemna minor* L. as a sustainable alternative for Pakistan's feed sector. *Aquaculture International* 31(15): 1-13.
- Yamakawa, Y., R. Jog, dan M. Morikawa. 2018. Effects of co-inoculation of two different plant growth-promoting bacteria on duckweed. *Plant Growth Regulation* 86: 287 – 296.
- Ziegler, P., K. J. Appenroth, dan K. S. Sree. 2023. Survival strategies of duckweeds, the world's smallest angiosperms. *Plants* 12(2215): 1-30.
- Zuki, N. A. A. M., H. Yahya, N. Ariffin, dan H. N. Yahya. 2022. The classification of duckweed and its bacterial community: a review. *Malaysian Journal of Science, Health & Technology* 8(1): 14-26.