

DAFTAR PUSTAKA

- Abioye, O. P., A. E. Adefisan, S. A. Aransiola, and D. Damisa. 2015. Biosorption of chromium by *Bacillus subtilis* and *Pseudomonas aeruginosa* isolated from waste dump site. *Expert Opin Environ Biol* 4(1): 1-5.
- Ayangbenro, A. S. and O. O. Babalola. 2017. A new strategy for heavy metal polluted environments: a review of microbial biosorbents. *Int. J. Environ. Res. Public Health* 14 (1): 94.
- Ayilara, M. S. and O. O. Babalola. 2023. Bioremediation of environmental wastes: the role of microorganisms. *Frontiers in Agronomy* 5:1183691).
- Bairagi, H., A. Ghati, and L. Ray. 2009. Biosorption of copper ions by *Bacillus cereus* M16 from aqueous solution. *Indian Chemical Engineer* 51(3): 203-14.
- Balikova, K., H. Vojtkova, E. Duborska, H. Kim, P. Matus, and M. Urik. 2022. Role of exopolysaccharides of *Pseudomonas* in heavy metal removal and other remediation strategies. *Polymers* 14(4253): 1-13.
- Bergey, D. H. (David Hendricks). 1923. *Bergey's Manual of Determinative Bacteriology : a Key for the Identification of Organisms of the Class Schizomycetes*. Baltimore, The Williams & Wilkins Company: 559-560.
- Borgio, J. F., B. J. Bency, S. Ramesh, and M. Amuthan. 2009. Exopolysaccharide production by *Bacillus subtilis* NCIM 2063, *Pseudomonas aeruginosa* NCIM 2862 and *Streptococcus mutans* MTCC 1943 using batch culture in different media. *African Journal of Biotechnology* 9(20): 5454-5457.
- Bottone, E. J. 2010. *Bacillus cereus*, a volatile human pathogen. *Microbiology Reviews* 23(2): 382-398.
- Cornu, J. Y., D. Huguenot, K. Jézéquel, M. Lollier, and T. Lebeau. 2017. Bioremediation of copper contaminated soils by bacteria. *World J Microbiol Biotechnol*, 33(26): 1-9.
- Chakraborty, B., A. Mallick, S. Annagiri, S. Sengupta, and T. K. Sengupta. 2016. Deciphering a survival strategy during the interspecific competition between *Bacillus cereus* MSM-S1 and *Pseudomonas* sp. MSM-M1. *Royal Society Open Science* 3: 1-13.
- Chang, J. S., R. Law, and C. C. Chang. 1996. Biosorption of lead copper, and cadmium by biomass of *Pseudomonas aeruginosa* PU21. *Water Research* 31(7): 1651-1658.
- Chen, C. S. 2005. Ecological risk assessment for aquatic species exposed to contaminants in Keelung River, Taiwan. *Chemosphere* 61: 1142-1158.
- Dinata, G. F., L. Q. Aini, and A. A. Abadi. 2021. The synergy between several bacteria isolated from the biodiversity of UB forest coffee litter in vitro. 1st Bioinformatics and Biodiversity Conference. *NST Proceedings*: 25-30.

- Donnachie, R. L., A. C. Johnson, C. Moeckel, M. G. Pereira, J. P. Sumpster. Using risk-ranking of metals to identify which poses the greatest threat to freshwater organisms in the UK. *Environmental Pollution* 194: 17-23.
- Gomes, N. C. M., L. C. M. Hagler, and I. Savvaidis. 1998. Metal bioremediation by microorganisms. *Revista de Microbiologia* 29: 85-92.
- Hossain, T. J. 2023. Methods for screening and evaluation of antimicrobial activity: a review of protocols, advantages and limitations. University of Chittagong.
- Irawati, W., A. J. N. Parhusip, S. Christian, and T. Yuwono. 2017. The potential capability of bacteria and yeast strains isolated from Rungkut Industrial Sewage in Indonesia as bioaccumulators and biosorbents of copper. *Biodiversitas*, 18(3): 971-977.
- Irawati, W., N. P. Ompusunggu, and T. Yuwono. 2018. Influence of bacterial consortium for copper biosorption and accumulation. *AIP Conference Proceedings* 2002(020072): 1-8.
- Jia, Y., J. Li, H. Niu, H. Ma, Q. Han, C. Wang, B. Li, and Z. Qiu. 2023. Synergistic antagonism mechanism of *Bacillus*-*Pseudomonas* consortium against *Alternaria solani*. *Eur J Plant Pathol*. 167: 715-726.
- Kour, D., Khan, S. S., Kour, H., Kaur, T., Devi, R., and Rai, P. K. 2022. Microbemediated bioremediation: current research and future challenges. *J. Appl. Biol. Biotechnol*. 10 (2): 6–24.
- Kugler, A., R. L. Brigmon, A. Friedman, F. M. Coutelot, S. W. Polson, J. C. Seaman, and W. Simpson. 2022. Bioremediation of copper in sediments from a constructed wetland ex situ with the novel bacterium *Cupriavidus basilensis* SRS. *Science Reports*, 12(1765): 1-14.
- Lau, P. S., H. Y. Lee, C. C. K. Tsang, N. F. Y. Tam, and Y. S. Wong. 2022. Effect of metal interference, pH and temperature on Cu and Ni biosorption by *Chlorella vulgaris* and *Chlorella miniata*.
- Liu, Y., H. Wang, Y. Cui, and N. Chen. 2023. Removal of copper ions from wastewater: a review 20: 1-23.
- Lyng, M. and A. T. Kovács. 2023. Frenemies of the soil: *Bacillus* and *Pseudomonas* interspecies interactions – Review. *Trends in Microbiology* 31(8): 845-857.
- Mawgoud, Y. A. 2015. Enhancement of chromium removal from industrial effluent drain by *Pseudomonas fluorescens* SC106 and *Bacillus subtilis* SC106 consortia. *Romanian Biotechnological Letters* 20(15): 10863-10870.
- Medfu, T., F. Z. Salilih, and A. I. Ishetu. 2020. Microbes used as a tool for bioremediation of heavy metal from the environment. *Cogent Food Agric*. 6 (1): 1783174
- Moritania, R., I. Effendi, dan F. Feliatra. 2019. Isolation and antagonism of bacteria test of biota in the mangrove ecosystem Kayu Ara River Siak Regency. *Asian Journal of Aquatic Sciences* 2(3): 190-196.

- Oyewole, O. A., S. S. L. Zobeashia, E. O. Oladoja, R. O. Raji, E. E. Odiniya, and A. M. Musa. 2019. Biosorption of heavy metal polluted soil using bacteria and fungi isolated from soil. *Springer Nature Applied Sciences*. Springer 1(857): 1-8.
- Palanivel, T. M., N. Sivakumar, A. Al-Ansari, and R. Victor. 2020. Bioremediation of copper by active cells of *pseudomonas stutzeri* LA3 isolated from an abandoned copper mine soil. *Journal of Environment Management* 253: 1-9.
- Petit, M. V., F. H. Dedet, F. Aujoulat, E. J. Bilak, and S. R. Bertrand. 2022. From copper tolerance to resistance in *Pseudomonas aeruginosa* towards patho-adaptation and hospital success, a review. *Genes* 13(301): 1-24.
- Pulungan, A. S. dan D. E. Tumangger. 2018. Isolasi dan karakterisasi bakteri endofit penghasil enzim katalase dari daun buasbuas (*Premna pubescens* Blume). *BioLink Jurnal Biologi Lingkungan, Industri Kesehatan* 5(1): 72-80.
- Rahmadian, C. A., Ismail, M. Abrar, Erina, Rastina, dan Y. Fahrimal. 2018. Isolasi dan identifikasi bakteri *Pseudomonas* sp. pada ikan asin di tempat pelelangan ikan Labuhan Haji Aceh Selatan. *JIMVET* 2(4): 493-502.
- Ridene, S., N. Werfelli, A. Mansouri, A. Landoulsi, and C. Abbes. 2023. Bioremediation potential of consortium *Pseudomonas stutzeri* LBR and *Cupriavidus metallidurans* LBJ in soil polluted by lead. *PLoS ONE* 18(6).
- Simões, M., L. C. Simões, M. O. Pereira, and M. J. Vieira. 2008. Antagonism between *Bacillus cereus* and *Pseudomonas fluorescens* in planktonic systems and in biofilms. *Biofouling* 24(5): 339-349.
- Sabae, S. Z., B. M. Refat, and U. M. Tahoun. 2016. Biosorption of copper and lead using bacterial biomass of *Bacillus cereus* and *Bacillus subtilis* isolated from El-Manzala Lake, Egypt. *International Journal of Advanced Research* 4(5): 263-274.
- Said, S. B. and D. Or. 2017. Synthetic microbial ecology: engineering habitats for modular consortia. *Frontiers in Microbiology* 8(1125): 1-20.
- Sapkota, A. 2021. *Pseudomonas aeruginosa* – an Overview. *Microbe Notes*. <<https://microbenotes.com/pseudomonas-aeruginosa/>>. Diakses pada 16 April 2024.
- Saravana, R. A., M. P. Vinosh, B. Bharathiraja, and M. Priya. 2018. Comparative biosorption capacity of copper and chromium by *Bacillus cereus*. *International Journal of Engineering & Technology* 7: 442-444.
- Tarangini, K. 2009. Biosorption of Heavy Metals using Individual and Mixed Cultures of *Pseudomonas aeruginosa* and *Bacillus subtilis*. Department of Chemical Engineering, National Institute of Technology, Rourkella Orissa, India. Tesis.
- Tarawneh, A., H. Qaralleh, M. O. Al-limoun, and K. M. Khleifat. 2019. Effect of copper chemical form on the growth of *Pseudomonas aeruginosa* isolated from burned patients and on its Cu uptake. *Journal of Basic and Applied Research in Biomedicine* 5(2): 107-114.

- de Vries, W., P. F. A. M. Romkens, and L. T. C. Bonten. 2008. Spatially explicit integrated risk assessment of present soil concentration of cadmium, lead, copper, and zinc in the netherlands. *Water Air Soil Pollution* 191: 199-215.
- Wang, Z., P. Luo, X. Zha, C. Xu, S. Kang, M. Zhou, D. Nover, and Y. Wang. 2022. Overview assessment of risk evaluation and treatment technologies for heavy metal pollution of water and soil. *Journal of Cleaner Production* 393: 1-23.
- Wróbel, M., W. Sliwakowski, P. Kowalczyk, K. Kramkowski, and J. Dobrzynski. 2023. Bioremediation of heavy metals by the genus *Bacillus*, a review. *Internasional Journal of Environmental Research and Public Health* 20(4964): 1-17.
- Wu, P., N. R. Rane, C. Xing, S. M. Patil, H. S. Roh, B. H. Jeon, and X. Li. 2022. Integrative chemical and omics analyses reveal copper biosorption and tolerance mechanisms of *Bacillus cereus* strain T6. *Journal of Hazardous Materials* 435: 1-12.
- Xia, F., L. Qu, T. Wang, L. Luo, H. Chen, R. A. Dahlgren, M. Zhang, K. Mei, and H. Huang. 2018. Distribution and source analysis of heavy metal pollutants in sediments of a rapid developing urban river system. *Chemosphere* 207: 218-228.