

DAFTAR PUSTAKA

- Abdul Maulud, K. N., Fitri, A., Wan Mohtar, W. H. M., Wan Mohd Jaafar, W. S., Zuhairi, N. Z., & Kamarudin, M. K. A. 2021. A Study of Spatial and Water Quality Index During Dry and Rainy Seasons at Kelantan River Basin, Peninsular Malaysia. *Arabian Journal Of Geosciences*, 14(2).
- Afianti, N. F., & Darmayati, Y. 2017. Pendekatan Culture Independent untuk Analisis Komunitas Bakteri. *OSEANA*, 42(1), 9-17.
- Altowayti, W. A., Almoalemi, H., Shahir, S., & Othman, N. 2020. Comparison of Culture-Independent and Dependent Approaches for Identification of Native Arsenic-Resistant Bacteria and Their Potential Use for Arsenic Bioremediation. *Ecotoxicology and Environmental Safety*, 205, 111267.
- Angraeni, A. T., Amelia, N., & Hala, Y. 2025. The Role of Pseudomonas Putida in Bioremediation: a Review. *JISIP (Jurnal Ilmu Sosial dan Pendidikan)*, 9(3), 1193.
- Ardiansyah, R., & Santoso, I. 2018. The Effect of Zinc Oxide Nanoparticles Against Ceiling Mold Isolate. *IOP Conf. Series: Earth and Environmental Science*, 481, 1-6.
- Artini, N. P. R., VA, D. P. R., & Fujiastuti, N. K. M. 2018. Penelitian Kualitas Air Sungai Balian, Tabanan, Bali Tahun 2018. *Jurnal Kesehatan Terpadu*, 2(1), 25-30.
- Asri, A. C., & Zulaika, E. 2016. Sinergisme Antar Isolat Azotobacter yang Dikonsorsiumkan. *Jurnal Sains dan Seni ITS*, 5(2): 2337-3520.
- Astarini, I. A., Ardiana, S. A., Putra, I. N. G., Pertiwi, P. D., Sembiring, A., Yusmalinda, A., & Al Malik, D. 2021. Genetic Diversity and Phylogenetic of Longtail Tuna (*Thunnus tonggol*) Landed in Pabean Fish Market, Surabaya. *Musamus Fisheries and Marine Journal*, 107-115.
- Atmodjo, S. S., Yasin, Erwin, Hidayat, M., Sari, D. A., Tuba, S., Rumondor, R., Siregar, S., Effendi, Anwar, I. F., & Muttaqin, M. 2020. *Dasar-Dasar Mikrobiologi*. Makassar: Masagena Mandiri Medica.
- Balejčíková, L., Tall, A., Kandra, B., & Pavelková, D. 2020. Relationship of Nitrates and Nitrites in the Water Environment with Humans and Their Activity. *Acta Hydrologica Slovaca*, 21(1), 74-81.
- Balmonte JP, Arnosti C, Underwood S, Mckee BA. 2016. Riverine Bacterial Communities Reveal Environmental Disturbance Signatures Within The Betaproteobacteria and Verrucomicrobia. *Front Microbiol*, 7(1), 1–14.
- Bassetti, M., Righi, E., Esposito, S., Petrosillo, N., & Nicolini, L. 2008. Drug treatment for multidrug-resistant Acinetobacter baumannii infections. *Future microbiology*, 3(6), 649-660.

- Batrach, M., Maskeri, L., Schubert, R., Ho, B., Kohout, M., Abdeljaber, M., ... & Putonti, C. 2019. Pseudomonas Diversity Within Urban Freshwaters. *Frontiers in Microbiology*, 10, 195.
- Belal, E. B., Metwaly, M. M., Abd Elrahman, N. I., & Gad, W. A. 2024. Biodegradation of Polycyclic Aromatic Hydrocarbons with *Enterobacter asburiae*. *Life and Environment*, 74(2), 99-124.
- Bohmann, K., Evans, A., Gilbert, M. T. P., Carvalho, G. R., Creer, S., Knapp, M., Yu, D. W., & De Bruyn, M. 2014. Environmental DNA for Wildlife Biology and Biodiversity Monitoring. *Trends In Ecology & Evolution*, 29(6), 358-367.
- Brand, V. R., Crosby, L. D., & Criddle, C. S. 2019. Niche Differentiation Among Three Closely Related Competibacteraceae Clades at a Full-Scale Activated Sludge Wastewater Treatment Plant and Putative Linkages to Process Performance. *Applied and Environmental Microbiology*, 85(5), e02301-18.
- Chakraborty, A., & Bhadury, P. 2015. Effect of Pollution on Aquatic Microbial Diversity. *Environmental Microbial Biotechnology*, 45(1), 53-75.
- Chen, X. P., Chen, H. Y., Sun, J., Zhang, X., He, C. Q., Liu, X. Y., ... & Väänänen, K. 2018. Shifts in the Structure and Function of the Microbial Community in Response to Metal Pollution of Fresh Water Sediments in Finland. *Journal of Soils and Sediments*, 18(11), 3324-3333.
- Chen, Y., Jiang, Y., Huang, H., Mou, L., Ru, J., Zhao, J., & Xiao, S. 2018. Long-Term and High-Concentration Heavy-Metal Contamination Strongly Influences the Microbiome and Functional Genes in Yellow River Sediments. *Science of the Total Environment*, 637, 1400-1412.
- Couto, C. R. D. A., Alvarez, V. M., Marques, J. M., Jurelevicius, D. D. A., & Seldin, L. 2015. Exploiting the Aerobic Endospore-Forming Bacterial Diversity in Saline and Hypersaline Environments for Biosurfactant Production. *BMC Microbiology*, 15, 1-17.
- Dang, H., & Lovell, C. R. 2016. Microbial Surface Colonization and Biofilm Development in marine environments. *Microbiology and Molecular Biology Reviews*, 80(1), 91-138.
- Darmawati, S., Sembiring, L., Asmara, W., Artama, W. T., & Kawaichi, M. 2014. Phylogenetic Relationship of Gram Negative Bacteria of Enterobacteriaceae Family in the Positive Widal Blood Cultures Based on 16S rRNA Gene Sequences. *Indonesian Journal of Biotechnology*, 19(1), 64-70.
- Dhindoria, K., Kumar, R., Bhargava, B., & Kumar, R. 2024. Metagenomic Assembled Genomes Indicated the Potential Application of Hypersaline Microbiome for Plant Growth Promotion and Stress Alleviation in Salinized Soil. *mSystems*, 9(3), 1-15.

- Dotis, J., Kondou, A., Karava, V., Sotiriou, G., Papadopoulou, A., Zarras, C., ... & Printza, N. 2023. *Leclercia adecarboxylata* in Peritoneal Dialysis Patients: A Systematic Review. *Pediatric Reports*, 15(2), 293-300.
- Ekwanzala, M. D., Dewar, J. B., & Momba, M. N. B. 2020. Environmental Resistome Risks of Wastewaters and Aquatic Environments Deciphered by Shotgun Metagenomic Assembly. *Ecotoxicology and Environmental Safety*, 197, 110612.
- Elufisan, T. O., Rodríguez-Luna, I. C., Oyedara, O. O., Sánchez-Varela, A., Mendoza, A. H., Gonzalez, E. D., ... & Guo, X. 2019. *Stenotrophomonas sp. Pemsol* Isolated from Crude Oil Contaminated Soil in Mexico that can Degrade Polycyclic Aromatic Hydrocarbons and its Whole Genome Sequence Analyzed (No. e27617v1). PeerJ Preprints.
- Fan, Q., Fan, X., Fu, P., Sun, Y., Li, Y., Long, S., ... & Hua, D. 2022. Microbial Community Evolution, Interaction, and Functional Genes Prediction During Anaerobic Digestion in the Presence of Refractory Organics. *Journal of Environmental Chemical Engineering*, 10(3).
- Fitri, Arniza, Maulud, K. N. A., Pratiwi, D., Phelia, A., Rossi, F., & Zuhairi, N. Z. 2020. Trend of Water Quality Status in Kelantan River Downstream, Peninsular Malaysia. *Jurnal Rekayasa Sipil (JRS-Unand)*, 16(3), 178–184
- Fitria, A. N., & Zulaikha, E. 2018. Aklimatisasi pH dan Pola Pertumbuhan *Bacillus Cereus* S1 pada Medium MSM Modifikasi. *Jurnal Sains dan Seni ITS*, Vol. 7(2): 2337-3520.
- Freches, A., & Fradinho, J. C. 2024. The Biotechnological Potential of the Chloroflexota Phylum. *Applied and Environmental Microbiology*, 90(6), e01756-23.
- Gao, T. P., Wan, Z. D., Liu, X. X., Fu, J. W., Chang, G. H., Sun, H. L., ... & Fang, X. W. 2021. Effects of Heavy Metals on Bacterial Community Structure in the Rhizosphere of *Salsola collina* and Bulk Soil in the Jinchuan Mining Area. *Geomicrobiology Journal*, 38(7), 620-630.
- Ghaima, K. K., Lateef, N. S., & Khaz'al, Z. T. 2018. Heavy Metal and Antibiotic Resistance of *Acinetobacter* spp. Isolated from Diesel Fuel Polluted Soil. *J Adv Lab Res Biol*, 9, 58-64.
- Ghorpade, K. B., Suryawanshi, M., & Shinde, S. M. 2019. Elimination of *Pseudomonas aeruginosa* from Water Systems: A Review. *J. Biomed. Pharm. Res*, 8, 124-127.
- Gomaa, E. Z., & El-Meihy, R. M. 2019. Bacterial Biosurfactant from *Citrobacter freundii* MG812314. 1 as a Bioremoval Tool of Heavy Metals from Wastewater. *Bulletin of the National Research Centre*, 43, 1-14.
- Guo, J., Zhao, L., Lu, W., Jia, H., & Sun, Y. 2016. Bacterial Communities in Water and Sediment Shaped by Paper Mill Pollution and Indicated Bacterial Taxa in Sediment in Daling River. *Ecological indicators*, 60, 766-773.

- Guo, L., Li, L., Zhou, S., Xiao, P., & Zhang, L. (2024). Metabolomic insight into regulatory mechanism of heterotrophic bacteria nitrification-aerobic denitrification bacteria to high-strength ammonium wastewater treatment. *Bioresource Technology*, 394, 130278.
- Harahap, M. R. 2018. Elektroforesis: Analisis Elektronika Terhadap Biokimia Genetika. *CIRCUIT: Jurnal Ilmiah Pendidikan Teknik Elektro*, 2(1).
- Hem, S., Wyrsh, E. R., Drigo, B., Baker, D. J., Charles, I. G., Donner, E., ... & Djordjevic, S. P. 2022. Genomic Analysis of Carbapenem-Resistant *Comamonas* in Water Matrices: Implications for Public Health and Wastewater Treatments. *Applied and Environmental Microbiology*, 88(13), e00646-22.
- Igiehon, N. O., & Babalola, O. O. 2018. Rhizosphere Microbiome Modulators: Contributions of Nitrogen Fixing Bacteria Towards Sustainable Agriculture. *International Journal of Environmental Research and Public Health*, 15(4), 1-25.
- Ihsan, Y. N., Fellatami, K., Permana, R., Mulyani, Y., & Pribadi, T. D. K. 2020. Analisis Bakteri Pereduksi Konsentrasi Logam Timbal Pb (Ch3coo) 2 Menggunakan Gen 16S rRNA. *Jurnal Kelautan: Indonesian Journal of Marine Science and Technology*, 13(2), 151-162.
- Jiang, W., Liang, P., Wang, B., Fang, J., Lang, J., Tian, G., ... & Zhu, T. F. 2015. Optimized DNA Extraction and Metagenomic Sequencing of Airborne Microbial Communities. *Nature Protocols*, 10(5), 768-779.
- Juniarti, N. 2020. Upaya Peningkatan Kondisi Lingkungan di Daerah Aliran Sungai Citarum. *Kumawula: Jurnal Pengabdian Kepada Masyarakat*, 3(2), 256-271.
- Kaewyai, J., Noophan, P. L., Lin, J. G., Munakata-Marr, J., & Figueroa, L. A. 2022. A Comparison of Nitrogen Removal Efficiencies and Microbial Communities Between Anammox and De-Ammonification Processes in Lab-Scale ASBR, and Full-Scale MBBR and IFAS Plants. *International Biodeterioration & Biodegradation*, 169, 105376.
- Kalkan, S., & Altuğ, G. 2020. The Composition of Cultivable Bacteria, Bacterial Pollution, and Environmental Variables of the Coastal Areas: An Example from the Southeastern Black Sea, Turkey. *Environmental Monitoring and Assessment*, 192(6), 356.
- Kamika I, Azizi S, & Tekere, M. 2016 Microbial Profiling of South African Acid Mine Water Samples Using Next Generation Sequencing Platform. *Appl Microbiol Biotechnol*, 100, 6069–6079
- Kepel, B., 2015. Fatimawali. Penentuan Jenis dengan Analisis Gen 16S rRNA dan Uji Daya Reduksi Bakteri Resisten Merkuri yang Diisolasi dari Feses Pasien dengan Tambalan Amalgam Merkuri di Puskesmas Bahu Manado. *Jurnal Kedokteran Yarsi*, 23(1), 45-55.

- Kisková, J., Juhás, A., Galušková, S., Maliničová, L., Kolesárová, M., Píknová, M., & Pristaš, P. 2023. Antibiotic Resistance And Genetic Variability of *Acinetobacter* spp. from Wastewater Treatment Plant in Kokšov-Bakša (Košice, Slovakia). *Microorganisms*, 11(4), 840.
- Köchling, T., Sanz, J. L., Galdino, L., Florencio, L., & Kato, M. T. 2017. Impact of Pollution on the Microbial Diversity of a Tropical River in an Urbanized Region of Northeastern Brazil. *Int Microbiol*, 20(1), 11-24.
- Laoli, D., Telaumbanua, B. V., Zebua, R. D., & Zebua, N. 2025. Analisis Faktor-Faktor Penentu Keberlangsungan Mikroorganisme dalam Lingkungan Perairan. *Jurnal Ruaya: Jurnal Penelitian dan Kajian Ilmu Perikanan dan Kelautan*, 13(2).
- Li, C., Xue, C., Ouyang, W., Liu, M., Sun, Y., & Liu, H. 2023. Identification and Synergetic Mechanism of TCE, H₂ and O₂ Metabolic Microorganisms in the Joint H₂/O₂ System. *Science of The Total Environment*, 879, 163026.
- Li, T., Zhou, Y., Yang, F., Guan, Q., Li, Q., Liang, H., & Zhao, J. 2023. Impact of Environmental Factors on the Diversity of Nitrogen-Removal Bacteria in Wetlands in the Sanmenxia Reservoir of the Yellow River. *Journal of Soils and Sediments*, 23(1), 512-525.
- Li, Y., Hua, D., Xu, H., Jin, F., Zhao, Y., Chen, L., ... & Zhu, Z. 2022. Energy Recovery from High Ash-Containing Sewage Sludge: Focusing on Performance Evaluation of Bio-Fuel Production. *Science of The Total Environment*, 843, 157083.
- Lokapirnasari, W.P., Dewi, A.R., Fathinah, A., Hidanah, S. and Harijani, N., 2017. Effect of Probiotic Supplementation on Organic Feed to Alternative Antibiotic Growth Promoter on Production Performance and Economics Analysis Oquail. *Veterinary World*, 10(12), 508.
- Martiningsih, S. T., & Rahmi, S. U. (2019). Efektifitas Bakteri Indigenous Limbah Cair Batik Untuk Dekolorisasi Sisa Pencelupan Tekstil Dengan Zat Warna Remazol Blue. *Jurnal Teknologi*, 9(2).
- Mikhailov, I. S., Zakharova, Y. R., Bukin, Y. S., Galachyants, Y. P., Petrova, D. P., Sakirko, M. V., & Likhoshway, Y. V. 2019. Co-Occurrence Networks Among Bacteria and Microbial Eukaryotes of Lake Baikal During A Spring Phytoplankton Bloom. *Microbial ecology*, 77(1), 96-109.
- Murphy, C. L., Biggerstaff, J., Eichhorn, A., Ewing, E., Shahan, R., Soriano, D., ... & Youssef, N. H. 2021. Genomic Characterization of Three Novel Desulfobacterota classes Expand the Metabolic and Phylogenetic Diversity of the Phylum. *Environmental microbiology*, 23(8), 4326-4343.
- Mutschlechner, M., Walter, A., Bach, K., Schobel, H. 2023. Beyond Cultivation: Combining Culture-Dependent and Culture-Independent Techniques to Identify Bacteria Involved in Paint Spoilage. *Coatings*, 13, 1055.
- Muzzazinah. 2017. Metode Flogenetik pada Indigofera. *Prosiding Seminar Nasional Pendidikan Biologi dan Biologi*, 2011, 25-40.

- Noer, S. 2021. Identifikasi Bakteri secara Molekular Menggunakan 16S rRNA. *EduBiologia: Biological Science and Education Journal*, 1(1), 1-6.
- Nujić, M., Milinković, D., & Habuda-Stanić, M. 2017. Nitrate Removal from Water by Ion Exchange. *Croatian Journal of Food Science and Technology*, 9(2), 182-186.
- Ouyang, L., Chen, H., Liu, X., Wong, M. H., Xu, F., Yang, X., ... & Li, S. 2020. Characteristics of Spatial and Seasonal Bacterial Community Structures in A River Under Anthropogenic Disturbances. *Environmental Pollution*, 264, 114818.
- Pan, X., Raaijmakers, J. M., & Carrión, V. J. 2023. Importance of Bacteroidetes in Host–Microbe Interactions and Ecosystem Functioning. *Trends in Microbiology*, 31(9), 959-971.
- Pananjung, A. M. S., Ulfa, E. U., Senjarini, K., & Arimurti, S. 2015. Karakterisasi Isolat Bakteri Fibrinolitik WU 021055* Asal Perairan Papuma, Jember. *Jurnal Bioteknologi dan Biosains Indonesia*, 2(1), 1-8.
- Pane, C., Sorrentino, R., Scotti, R., Molisso, M., Di Matteo, A., Celano, G., & Zaccardelli, M. 2020. Alpha and Beta-Diversity of Microbial Communities Associated to Plant Disease Suppressive Functions of On-Farm Green Composts. *Agriculture*, 10(4), 113.
- Patel, V., Patil, K., Patel, D., Kikani, B., Madamwar, D., & Desai, C. 2024. Distribution of Bacterial Community Structures and Spread of Antibiotic Resistome at Industrially Polluted Sites of Mini River, Vadodara, Gujarat, India. *Environmental Monitoring and Assessment*, 196(2), 208.
- Pérez-Jaramillo, J. E., Carrión, V. J., de Hollander, M., & Raaijmakers, J. M. 2018. The Wild Side of Plant Microbiomes. *Microbiome*, 6(1), 143.
- Prastianti, F. M., Bachtiar, E., Lewaru, M. W., & Agung, M. U. K. 2022. Studi Metagenomik Sampel Perairan yang Diperkaya dari Wilayah Hilir Sungai Citarum dan Potensinya sebagai Agen Bioremediasi Metagenomics Study of Enriched Water Samples from Citarum River Downstream and Their Potency as Bioremediation Agent. *Jurnal Pascapanen dan Bioteknologi Kelautan dan Perikanan*, 17(1), 77-87.
- Prayoga, W., & Wardani, A. K. 2014. Polymerase Chain Reaction Untuk Deteksi *Salmonella* sp. *Jurnal Pangan dan Agroindustri*, 3(2), 483-488.
- Putri, N. A. A., Indra, I. N. A., Merdekawati, F., & Abror, K. Y. 2024. *Optimasi Variasi Voltase dan Waktu Terhadap Kualitas Pita DNA Escherichia Coli Pada Proses Elektroforesis Gel Agarosa*. (Doctoral Dissertation, Politeknik Kesehatan Kemenkes Bandung).
- Rifai, M. R., Widowati, H., & Sutanto, A. 2020. Uji Sinergis Konsorsia Bakteri Indigen Lcn Berkonsorsia Bakteri Tanah di Kebun Percobaan Universitas Muhammadiyah Metro untuk Penyusunan Panduan Praktikum Mikrobiologi. *Biolova*, 1(2), 87-95.

- Rincón-Tomás, B., Lanzén, A., Sánchez, P., Estupiñán, M., Sanz-Sáez, I., Bilbao, M. E., ... & Alonso-Sáez, L. 2024. Revisiting the Mercury Cycle in Marine Sediments: A Potential Multifaceted Role for Desulfobacterota. *Journal of Hazardous Materials*, 465, 133120.
- Rizki, Z., Fitriana, F., & Jumadewi, A. 2022. Identifikasi Jumlah Angka Kuman pada Dispenser Metode TPC (*Total Plate Count*). *Jurnal SAGO Gizi dan Kesehatan*, 4(1), 38-43.
- Rout, A. K., Tripathy, P. S., Dixit, S., Behera, D. U., Behera, B., Das, B. K., & Behera, B. K. 2024. Metagenomics Analysis of Sediments of River Ganga, India for Bacterial Diversity, Functional Genomics, Antibiotic Resistant Genes and Virulence Factors. *Current Research in Biotechnology*, 7, 100187.
- Saleem, F., Azim, M. K., Mustafa, A., Kori, J. A., & Hussain, M. S. 2019. Metagenomic Profiling of Fresh Water Lakes at Different Altitudes in Pakistan. *Ecological Informatics*, 51, 73-81.
- Sehna, L., Brammer-Robbins, E., Wormington, A. M., Blaha, L., Bisesi, J., Larkin, I., ... & Adamovsky, O. 2021. Microbiome Composition and Function in Aquatic Vertebrates: Small Organisms Making Big Impacts on Aquatic Animal Health. *Frontiers in Microbiology*, 12, 567408.
- Selvarajan, R., Sibanda, T., Venkatachalam, S., Kamika, I., & Nel, W. A. 2018. Industrial Wastewaters Harbor a Unique Diversity of Bacterial Communities Revealed by High-Throughput Amplicon Analysis. *Annals of Microbiology*, 68(7), 445-458.
- Sharma, A., Kohli, P., Singh, Y., Schumann, P., Lal, R., 2016. *Fictibacillus halophilus* sp. nov., from a Microbial Mat of a Hot Spring Atop the Himalayan Range. *Int. J. Syst. Evol. Microbiol.*, 66, 2409–2416
- Sihag, S., Sharma, S., Pathak, H., Dave, S., & Jaroli, D. P. 2013. Biodegradation of Engine Oil by *Acinetobacter calcoaceticus* BD4, Isolated from Coastal Area Mumbai. *Int. J. Biotechnol. Bioeng. Res.*, 4, 235-242.
- Simbolon, A. R., & Aji, L. P. 2021. Identifikasi Molekular dan Struktur Filogenetik Moluska (Gastropoda dan Bivalvia) di Perairan Biak, Papua. *BAWAL Widya Riset Perikanan Tangkap*, 13(1), 11-21.
- Simon, M., Scheuner, C., Meier-Kolthoff, J. P., Brinkhoff, T., Wagner-Döbler, I., Ulbrich, M., ... & Göker, M. 2017. Phylogenomics of Rhodobacteraceae Reveals Evolutionary Adaptation to Marine and Non-Marine Habitats. *The ISME journal*, 11(6), 1483-1499.
- Singh, B., Mal, G., Sharma, D., Sharma, R., Kapoor, P. S., Singh, G., & Kanwar, S. S. 2017. Metagenomic Insights into Herbivore Gut: An Application-Based Perspective. *Mining of Microbial Wealth and Metagenomics*, 201-215.

- Storesund, J. E., Lanz n, A., Nordmann, E. L., Armo, H. R., Lage, O. M., &  vre s, L. 2020. Planctomycetes as a Vital Constituent of the Microbial Communities Inhabiting Different Layers of the Meromictic Lake S lenvannet (Norway). *Microorganisms*, 8(8), 1150.
- Su, Z., Dai, T., Tang, Y., Tao, Y., Huang, B., Mu, Q., & Wen, D. 2018. Sediment Bacterial Community Structures and Their Predicted Functions Implied the Impacts from Natural Processes and Anthropogenic Activities in Coastal Area. *Marine Pollution Bulletin*, 131, 481-495.
- Sumartias, S. 2018. Pondok Edukasi Lingkungan Desa Linggar Rancaek. *Jurnal Pengabdian Kepada Masyarakat*, 2(4), 342-345.
- Takci, H. A. M., Ozdenefe, M. S., Kayis, F. B., & Dincer, S. 2023. Bacteriological Perspective of Water Quality. *Water Quality-New Perspectives*, 2(1), 1-17.
- Tang, Y., Fang, S., Xie, L., Sun, C., Li, S., Zhou, A., ... & Li, J. 2023. Advances in Genomics of Multi-Drug Resistant *Stenotrophomonas*. *Sheng wu Gong Cheng xue bao = Chinese Journal of Biotechnology*, 39(4), 1314-1331.
- Terashima, M., Yama, A., Sato, M., Yumoto, I., Kamagata, Y., & Kato, S. 2016. Culture-Dependent and Independent Identification of Polyphosphate-Accumulating *Dechloromonas* spp. Predominating in a Full-scale Oxidation Ditch Wastewater Treatment Plant. *Microbes and Environments*, 31(4), 449-455.
- Tilawah, S. 2019. Optimasi Volume DNA Marker dan Volume DNA Hasil Amplifikasi Gen TETL Resistensi Antibiotik Tetrasiklin dari Bakteri *Bacillus cereus* pada Pasien Ulkus Diabetik. *Jurnal Mahasiswa Farmasi Fakultas Kedokteran Untan*, 4(1).
- Tipayno, S. C., Truu, J., Samaddar, S., Truu, M., Preem, J. K., Oopkaup, K., ... & Sa, T. 2018. The Bacterial Community Structure and Functional Profile in the Heavy Metal Contaminated Paddy Soils, Surrounding A Nonferrous Smelter in South Korea. *Ecology and Evolution*, 8(12), 6157-6168.
- Tran, P. Q., Bachand, S. C., McIntyre, P. B., Kraemer, B. M., Vadeboncoeur, Y., Kimirei, I. A., ... & Anantharaman, K. 2021. Depth-Discrete Metagenomics Reveals the Roles of Microbes in Biogeochemical Cycling in the Tropical Freshwater Lake Tanganyika. *The ISME Journal*, 15(7), 1971-1986.
- Utama, Z., Supratman, O., & Adibrata, S. 2019. Perbandingan Kelimpahan Ikan Karang pada Fish Shelter di Karang Melantut Pantai Rebo dan Pantai Matras Kecamatan Sungailiat, Kabupaten Bangka. *Aquatic Science*, 1(2), 1-9.
- Vega, L., Jaimes, J., Morales, D., Mart nez, D., Cruz-Saavedra, L., Mu oz, M., & Ram rez, J. D. 2021. Microbial Communities Characterization in Urban Recreational Surface Waters Using Next Generation Sequencing. *Microbial ecology*, 81, 847-863.

- Vertiana, E. V., Oksari, A. A., & Hariri, M. R. 2023. Studi Perbandingan Kode Batang Dna Inti dan Kloroplas pada *Heliconia* sp. *in Silico*. *BIO-SAINS: Jurnal Ilmiah Biologi*, 3(1), 39-47.
- Wan, T., He, M. X., Ren, J. H., Yan, X. X., & Cheng, W. 2019. Environmental Response and Ecological Function Prediction of Aquatic Bacterial Communities in the Weihe River Basin. *Huan Jing ke Xue= Huanjing Kexue*, 40(8), 3588-3595.
- Wang, L., Zhang, J., Li, H., Yang, H., Peng, C., Peng, Z., & Lu, L. 2018. Shift in the Microbial Community Composition of Surface Water and Sediment Along an Urban River. *Science of the Total Environment*, 627, 600-612.
- Wang, P., Chen, B., Yuan, R., Li, C., & Li, Y. 2016. Characteristics of Aquatic Bacterial Community and the Influencing Factors in an Urban River. *Science of the Total Environment*, 569, 382-389.
- Wang, W. L., Xu, S. Y., Ren, Z. G., Tao, L., Jiang, J. W., & Zheng, S. S. (2015). Application of metagenomics in the human gut microbiome. *World journal of gastroenterology: WJG*, 21(3), 803.
- Wati, R. Y. 2018. Pengaruh Pemanasan Media PCA Berulang Terhadap Uji TPC di Laboratorium Mikrobiologi Teknologi Hasil Pertanian Unand. *Jurnal Temapela*, 1(2), 44-47.
- Widayat, W., Agustini, T. W., Suzery, M., Al-Baarri, A. N. M., Putri, S. R., & Kurdianto, K. 2019. Real Time-Polymerase Chain Reaction (RT-PCR) Sebagai Alat Deteksi DNA Babi dalam Beberapa Produk Non-Pangan. *Indonesia Journal Of Halal*, 2(1), 26-33.
- Wolińska, A., Kuźniar, A., Zielenkiewicz, U., Izak, D., Szafranek-Nakonieczna, A., Banach, A., & Błaszczuk, M. 2017. Bacteroidetes as a Sensitive Biological Indicator of Agricultural Soil Usage Revealed by a Culture-Independent Approach. *Applied Soil Ecology*, 119, 128-137.
- Woźnica, A., Kwaśniewski, M., Chwiałkowska, K., Łozowski, B., Absalon, D., Libera, M., ... & Babczyńska, A. 2022. Microbiome Dynamics Modeling and Analysis in Relation to Spatio-Temporal Changes in Physicochemical Conditions of the Water Ecosystem. *Archives of Environmental Protection*, 48(1).
- Xiao, M., Long, Z. E., Fu, X., & Zou, L. 2024. Versatile Applications and Mechanisms of Genus *Exiguobacterium* in Bioremediating Heavy Metals and Organic Pollutants: A Review. *International Biodeterioration & Biodegradation*, 194, 105884.
- Xu, X., Qiu, L., Wang, C., & Yang, F. 2019. Achieving Mainstream Nitrogen and Phosphorus Removal Through Simultaneous Partial Nitrification, Anammox, Denitrification, and Denitrifying Phosphorus Removal (SNADPR) Process in a Single-Tank Integrative Reactor. *Bioresource Technology*, 284, 80-89.

- Yan, J., Guo, X., He, M., Niu, Z., Xu, M., Peng, B., ... & Jin, Z. 2024. Metals and Microorganisms in a Maar Lake Sediment Core Indicating the Anthropogenic Impact Over Last 800 Years. *Science of The Total Environment*, 911, 168392.
- Yoon, J., & Tamura, T. 2024. Polyphasic Identification of *Rhizomonospora bruguiera* gen. nov., sp. nov., Isolated from Mangrove Rhizosphere Soil. *Current Microbiology*, 81(12), 440.
- Zaghloul, A., Saber, M., Gadow, S., & Awad, F. 2020. Biological Indicators for Pollution Detection in Terrestrial and Aquatic Ecosystems. *Bulletin of the National Research Centre*, 44(1), 1-11.
- Zarei-Baygi, A., & Smith, A. L. 2021. Intracellular Versus Extracellular Antibiotic Resistance Genes in the Environment: Prevalence, Horizontal Transfer, and Mitigation Strategies. *Bioresource Technology*, 319, 124181.
- Zeng, T., Wang, L., Zhang, X., Song, X., Li, J., Yang, J., ... & Zhang, J. 2022. Characterization of Microbial Communities in Wastewater Treatment Plants Containing Heavy Metals Located in Chemical Industrial Zones. *International Journal of Environmental Research and Public Health*, 19(11), 6529.
- Zhai, S., Ji, M., Zhao, Y., Pavlostathis, S. G., & Zhao, Q. 2018. Effects of Salinity and COD/N on Denitrification and Bacterial Community in Dicyclic-Type Electrode Based Biofilm Reactor. *Chemosphere*, 192, 328-336.
- Zhang, D., Zhu, Z., Li, Y., Li, X., Guan, Z., & Zheng, J. (2021). Comparative genomics of *Exiguobacterium* reveals what makes a cosmopolitan bacterium. *Msystems*, 6(4), 10-1128.
- Zhang, J., Yang, Y., Zhao, L., Li, Y., Xie, S., & Liu, Y. 2015. Distribution of Sediment Bacterial and Archaeal Communities in Plateau Freshwater Lakes. *Applied Microbiology and Biotechnology*, 99, 3291-3302.
- Zhang, K., Miao, Y., Zou, J., Wang, S., Hu, C., & Wang, Z. 2024. The Start-Up of Anammox System Inoculated with Sludge Overwhelmingly Dominated by *Candidatus competibacter*: System Performance and Microbial Community Succession. *Journal of Water Process Engineering*, 57, 104605.
- Zhang, L., Xu, M., Li, X., Lu, W., & Li, J. 2020. Sediment Bacterial Community Structure Under The Influence of Different Domestic Sewage Types. *Journal of Microbiology and Biotechnology*, 30(9), 1355.
- Zhang, Q., Zhao, J., Wang, G., Guan, H., Wang, S., Yang, J., ... & Li, A. 2024. Differences of Bacterioplankton Communities Between The Source and Upstream Regions of the Yangtze River: Microbial Structure, Co-Occurrence Pattern, and Environmental Influencing Factors. *Brazilian Journal of Microbiology*, 55(1), 571-586.
- Zhang, S., Amanze, C., Sun, C., Zou, K., Fu, S., Deng, Y., ... & Liang, Y. 2021. Evolutionary, Genomic, and Biogeographic Characterization of Two Novel

- Xenobiotics-Degrading Strains Affiliated With Dechloromonas. *Heliyon*, 7(6).
- Zhang, T., Li, J., Wang, N., Wang, H., & Yu, L. 2022. Metagenomic Analysis Reveals Microbiome and Resistome in the Seawater and Sediments of Kongsfjorden (Svalbard, High Arctic). *Science of the Total Environment*, 809, 1-12.
- Zhang, W., Liu, B., Sun, Z., Wang, T., Tan, S., Fan, X., ... & Ye, C. 2023. Comparison of Nitrogen Removal Characteristic and Microbial Community in Freshwater and Marine Recirculating Aquaculture Systems. *Science of The Total Environment*, 878, 162870.
- Zhang, Z., Xiong, Y., Chen, H., & Tang, Y. 2020. Understanding the Composition and Spatial Distribution of Biological Selenate Reduction Products for Potential Selenium Recovery. *Environmental Science: Water Research & Technology*, 6(8), 2153-2163.
- Zhao, W., Bi, X., Peng, Y., & Bai, M. 2022. Research Advances of the Phosphorus-accumulating Organisms of *Candidatus accumulibacter*, Dechloromonas and Tetrasphaera: Metabolic Mechanisms, Applications and Influencing Factors. *Chemosphere*, 307, 135675.
- Zhu, L., Zhou, H., Xie, X., Li, X., Zhang, D., Jia, L., ... & Ma, Y. 2018. Effects of Floodgates Operation on Nitrogen Transformation in a Lake Based on Structural Equation Modeling Analysis. *Science of the Total Environment*, 631, 1311-1320.