Bioremediasi Merkuri Menggunakan Bakteri Bacillus sp. Dari Limbah Tambang Emas PT. Lampung Kencana
Cikantor (LKC) Sejahtera dan Tambang Emas Rakyat (PESK)
Nuri Oktavia, Ir. Yuni Kusumastuti, S.T., M.Eng., D.Eng. IPM
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

A. Arifiyanto, F. D. Apriyanti, P. Purwaningsih, S.H. Kalqutny, D. Agustina, T. Surtiningsih, M. Shovitri, and E. Zulaika (2017). Lead (Pb) Bioaccumulation; Genera Bacillus Isolat S1 And SS19 As A Case Stud. AIP Conference Proceedings

A. Malone et al., Transitional dynamics from mercury to cyanide-based processing in artisanal and small-scale gold mining: Social, economic, geochemical, and environmental considerations, Science of The Total Environment, vol. 898, p. 165492, Nov. 2023,

A. S. Sastry and S. B. K (2016). Essentials of Medical Microbiology, 1st ed. New Delhi, India: Jaypee Brothers Medical

Abdulah, N.L. Nurtjahja, K. Rahmiati. Susi, F (2024). Potensi Bakteri Endofit dari Akar Kecombrang (Etlin elatior) R.M.Smith) dalam Menghambat Pertumbuhan Staphylococcus aureus. Jurnal Ilmiah Biologi UMA (JIBIOMA)

Ahmad, I., Fatima, N., Naz, E., Farooqi, Z.U.R., Bulgariu, L., (2024). Treatment methods for mercury removal from soil and wastewater. Mercury Toxicity Mitigation: Sustainable Nexus Approach, Earth and Environmental Sciences Library. Springer Nature Switzerland, Cham, pp. 257–281. 48817-7_12

Amelia, T. F., Baehaki, A., and Herpandi, H (2016). Aktivitas Reduksi Merkuri pada Bakteri yang Diisolasi dari Air and Sedimen di Sungai Musi. Jurnal FishtecH, 5(1), 94–106

Aulia, H., Lisa, R., and Atni, A (2017). Penentuan Chemical Oxygen Demand (COD) Pada Air Sungai Martapura Akibat Limbah Industri (COD) In Martapura River Due To The Sasirangan. Seminar Nasional and Presentasi Ilmiah Perkembangan Terapi Obat Herbal Pada Penyakit Degeneratif, 1

Basu, N., Abass, K., Dietz, R., Krummel, E., Rautio, A., Weihe, P (2022). The Impact of Mercury Contamination on Human Health in The Arctic: a state of the science review. Sci. Total Environ. 831, 154793

Bayu Andika, Puji Wahyuningsih, and Rahmatul Fajri (2020). Penentuan Nilai Bod and Cod Sebagai Parameter Pencemaran Air and Baku Mutu Air Limbah Di Pusat Penelitian Kelapa Sawit (Ppks) Medan. QUIMICA: Jurnal Kimia Sains and Terapan, 2(1), 14–22

Benson, D. A., Cavanaugh, M., Clark, K., Mizrachi, I. K., Lipman, D. J., Ostell, J., and Sayers, E. W (2013). GenBank. Nucleic Acids Research, 41(D1), D37–D42

Bernhoft, R.A (2012). Mercury Toxicity and Treatment: a review of the literature. J Environ Public Health

Borthakur, D., Rani, M., Das, K., Shah, M.P., Sharma, B.K., Kumar, A (2022). Bioremediation: An Alternative Approach For Detoxification Of Polymers From The Contaminated Environment. Lett. Appl. Microbiol. 75 (4), 744–758.

UNIVERSITAS
GADJAH MADA
**Bioremediasi Merkuri Menggunakan Bakteri Bacillus sp. Dari Limbah Tambang Emas PT. Lampung Kencana
Cikantor (LKC) Sejahtera dan Tambang Emas Rakyat (PESK)**
Nuri Oktavia, Ir. Yuni Kusumastuti, S.T., M.Eng., D.Eng. IPM
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

10.1111/lam.13616

Burns, R. G., DeForest, J. L., Marxsen, J., Sinsabaugh, R. L., Stromberger, M. E., Wallenstein, M. D., Weintraub, M.N., and Zoppini, A (2013). Soil Enzymes In A Changing Environment: Current Knowledge And Future Directions. Soil Biology and Biochemistry, 58, 216-234

C (2021). Coastal Ocean Data Analysis Product In North America (CODAP-NA) – An Internally Consistent Data Product For Discrete Inorganic Carbon,

Casado-García, Á., Chichón, G., Domínguez, C., García-Domínguez, M., Heras, J., Inés, A., López, M., Mata, E., Pascual, V., and Sáenz, Y (2021). Motility J: An Open-Source Tool For The Classification And Segmentation Of Bacteria On Motility Images. Computers in Biology and Medicine

Chang, Y.H. Chan. B.M. Yu. S.H. Wu. C (2023). Tailored Bacteria Tackling With Enviromental Mercury: Inspired by Natural Mercuric Detoxification Operons. Enviromental Pollution chemosphere.

Cho, K., Kang, J., Kim, S., Purev, O., Myung, E., Kim, H., Choi, N (2021). Effect of Inorganic Carbonate And Organic Matter In Thermal Treatment of Mercury-Contaminated Soil. Environ. Sci. Pollut. Res. Int. 28, 48184–48193

Cho, N., Cho, K., Lee, S (2025). Application of Waste Foundry Dust As Microwave Susceptor In Microwave Treatment Of Mercury Contaminated Soil. Waste Management 206. 115081. Cibinong: Pusat Penelitian Limnologi LIPI

Damayanti, S. S., Komala, O., and Effendi, E. M (2020). Identifikasi Bakteri dari Pupuk Organik Cair Isi Rumen Sapi. Ekologia, 18 (2), 63–71

Dari Tanah Kebun Raya Liwa. Jurnal Ilmu Tanah, 18, 46–52

Dash, H, R, Sahu, M, Mallick, B, Das, S (2017). Functional Efficiency Of Mera Protein Among Diverse Mercury Resistant Bac Teria For Efficient Use In Bioremedia Tion Of Inorganic Mercury. Biochimie. 142:207-215

Dinda E.C., Cynthia.D., Elisabet T (2024). Isolasi and Identifikasi Bakteri Esherichia coli, Klebsiella sp. and Staphylococcus aureus Pada Kambing and Susu Kambing Peranakan Etawa. Jurnal Vereriner Nusantara. 2540-7643

Direktorat Jenderal Mineral and Batubara (2021). Grand strategy mineral and batubara: Arah pengembangan hulu hilir mineral utama and batubara menuju Indonesia maju. Kementerian Energi and Sumber Daya Mineral

Donkor, A. K., Ghoveisi, H., and Bonzongo, J.-C. J (2024).Use of Metallic Mercury in Artisanal Gold Mining by Amalgamation: A Review of Temporal and Spatial Trends and Environmental Pollution. Minerals, 14(6), 555

Du, H., Ma, M., Igarashi, Y., and Wang, D (2019). Biotic and abiotic degradation of methylmercury in aquatic ecosystems: A review. Bulletin of Environmental Contamination and Toxicology, 102(5), 605–611

Bioremediasi Merkuri Menggunakan Bakteri Bacillus sp. Dari Limbah Tambang Emas PT. Lampung Kencana
Cikantor (LKC) Sejahtera dan Tambang Emas Rakyat (PESK)
Nuri Oktavia, Ir. Yuni Kusumastuti, S.T., M.Eng., D.Eng. IPM
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Dwijoseputro (2005). Dasar-Dasar Mikrobiologi. Djambatan : Malang

E. Zulaika, U. Sholikah, and Y. A. Prasetya (2012). Potensi bakteri Bacillus sebagai agensia bioremediasi limbah, Semin. Pemetaan Potensi and Inov. Ilmu Pengetahuan, Teknol. Seni and Budaya Jatim, Ristek-ITS, pp. 1–6

Eddy (2008). Karakteristik Limbah Cair. Jurnal Ilmiah Teknik Lingkungan, 2(2), 20. Esdaile, L. J., and Chalker, J. M (2018). The Mercury Problem in Artisanal and Small-Scale Gold Mining. Chemistry – A European Journal, 24(27), 6905–6916

Elie, A., Niberon, Y., Bruyant, A., Arnaud, L., Cosio, C., and Proust, J (2025). Detection of mercury ions at ng/L scale by surface plasmon resonance (SPR) on DNA aptamer biochips. The Journal of Physical Chemistry C, 129(3), 1779–1788

Ester, D.J.D. and Krisitiani, N.L (2025). Pemanfaatan Mikrobiologi dalam Bioremediasi Tanah Pertanian Tercemar Pestisida. Jurnal Ilmu Pertanian and Teknologi Dalam Ilmu Tanaman. 2 (1)

Fuentes-Gandara, F., Herrera-Herrera, C., Pinedo-Hernandez, ´ J., Marrugo-Negrete, J., Díez, S., (2018). Assessment Of Human Health Risk Associated With Methylmercury In The Imported Fish Marketed In The Caribbean. Environ. Res. 165, 324–329.

G. Satchanska, E. N. Pentcheva, R. Atanasova, V. Groudeva, R. Trifonova, And E. Golovinsky (2005). Microbial Diversity in Heavy-Metal Polluted Waters, Biotechnol. Biotechnol. Equip. 19(3)

Gallo Corredor, J. A., Pérez, E. H., Figueroa, R., dan Figueroa Casas, A (2021). Water quality of streams associated with artisanal gold mining; Suárez, Department of Cauca, Colombia. Heliyon, 7(6), e07047

Gingichashvili, S., Duanis-Assaf, D., Shemesh, M., Featherstone, J. D., Feuerstein, O., and Steinberg, D (2019). The Adaptive Morphology Of Bacillus Subtilis Biofilms: A Defense Mechanism Against Bacterial Starvation. Microorganisms, 8(1), 62

Gyamfi, O., Sorenson, P.B., Darko, G., Ansah, E., Bak, J.L (2020). Human Health Risk Assessment Of Exposure To Indoor Mercury Vapour In A Ghanaian Artisanal Small-Scale Gold Mining Community. Chemosphere 241, 125014

Handoko, C. T., Yanti, T. B., Syadiyah, H., and Marwati, S., (2013). Penggunaan Metode Presipitasi Untuk Menurunkan Kadar Cu Dalam Limbah Cair Industri Perak Di Kota Gede, Jurnal Penelitian Saintek, Vol. 18, No. 2, pp. 51–58

Harahap, M. R., Amanda, L. D., and Matondang, A. H (2022). Analisis Kadar Cod (Chemical Oxygen Demand) and Tss (Total Suspended Solid) Pada Limbah Cair Dengan Menggunakan Spektrofotometer Uv-Vis. Amina, 2(2), 79–83

Hasanah (2022). Analisis Dampak Kegiatan Pertambangan Emas Terhadap Lingkungan Fisik Di Desa Paningkaban Kecamatan Gumelar Kabupaten Banyumas Tahun 2021. Infomatek, 1(1), 18–23

Hashem, N.A., Yousefb, N.M.H., El-Shazolya, R.M (2024). Production and Optimization of Extracellular α-amylase From Halophilic Bacteria Cytobacillus oceanisediminis

Bioremediasi Merkuri Menggunakan Bakteri Bacillus sp. Dari Limbah Tambang Emas PT. Lampung Kencana
Cikantor (LKC) Sejahtera dan Tambang Emas Rakyat (PESK)
Nuri Oktavia, Ir. Yuni Kusumastuti, S.T., M.Eng., D.Eng. IPM
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Isolatd From Wadi-El-Natrun, Egypt. Sultan Qaboos University Journal for Science

Hatta M (2014). Hubungan Antara Parameter Oseanografi Dengan Klorofil-A Kandungan Pada Musim Timur Di Perairan Utara Papua. Jurnal Ilmu Kelautan and Perikanan, 24(3), 29-39

Huang, C.C., Narita, M., Yamagata, T., Endo, G., and Simon, S (2002). Characterization Of Two Regulatory Genes Of The Mercury Resistance Determinants From Tnmeri1 By Luciferase-Based Examination. Gene, 301, 13–20

Insiani, Yun, and R. Nugroho. Teknologi Pengolahan Emas pada Pertambangan Emas Skala Kecil di Indonesia. GOLD-ISMIA: Jakarta Pusat (2020)

Isa I. Yuliana R (2013). Pemanfaatan Berbagai Jenis Bakteri Dalam Proses Bioleaching Limbah Logam Berat. Laporan Tahunan Penelitian Fundamental. Universitas Negeri Gorontalo

Ismail, I., Mangesa, R., and Irsan, I (2020). Bioakumulasi Logam Berat Merkuri (Hg) Pada Mangrove Jenis Rhizophora Mucronata Di Teluk Kayeli Kabupaten Buru. Biosel: Biology Science and Education, 9(2), 139

Ismail, I., Mubarak, F., Rasyak, R. I., Rusli, R., Fitriana, F., and Mashar, H. M (2023). Isolasi and Uji Aktivitas Bakteri Asam Laktat dari Produk Fermentasi Kombucha Teh Dalam Menghambat Bakteri Escherichia coli, Staphylococcus aureus, and Salmonella thypi. Jurnal Mandala Pharmacon Indonesia, 9(2), 335–344

Jiang, L., Feely, R. A., Wanninkhof, R., Greeley, D., Barbero, L., Alin, S. R., Carter, B. R., Pierrot, D., Featherstone, C. M., Hooper, J. A., Melrose, C., Monacci, N., Sharp, J. D., Shellito, S., Xu, Y., Kozyr, A., Byrne, R. H., Cai, W., Cross, J. N., and Johnson, G

Junaidi J (2022). Pertambangan Emas Tanpa Izin (PETI) and Kesejahteraan Keluarga Di Sekitar Wilayah Pertambangan. E-Jurnal Ekonomi Sumberdaya and Lingkungan. 11(1):61 74

Kannan, K., and Krishnamoorthy, R (2006). Isolation Of Mercury-Resistant Bacteria And Influence Of Abiotic Factors On Bioavailability Of Mercury: A Case Study In Pulicat Lake, North Of Chennai, Southeast India. Science of the Total Environment, 367, 341–353

Kementerian Lingkungan Hidup and Kehutanan (2017). Pengurangan and Penghapusan Merkuri Pada Pertambangan Emas Skala Kecil. Grand Design

Kementerian Lingkungan Hidup and Kehutanan (2020). Buku 2: Penggunaan Merkuri and Dampaknya terhadap Lingkungan serta Sebaran Lokasi Pertambangan Emas Skala Kecil. Status Merkuri Pada Pertambangan Emas Skala Kecil Di Indonesia, 24

Kementerian Lingkungan Hidup and Kehutanan Republik Indonesia (2022). Peraturan Menteri Lingkungan Hidup and Kehutanan Republik Indonesia Nomor 5 Tahun 2022 tentang pengolahan air limbah bagi usaha and kegiatan pertambangan dengan menggunakan metode lahan basah buatan. Jakarta: KLHK

Bioremediasi Merkuri Menggunakan Bakteri Bacillus sp. Dari Limbah Tambang Emas PT. Lampung Kencana
Cikantor (LKC) Sejahtera dan Tambang Emas Rakyat (PESK)
Nuri Oktavia, Ir. Yuni Kusumastuti, S.T., M.Eng., D.Eng. IPM
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Koo, H., Allan, R.N., Howlin, R.P., Stoodley, P., Hall-Stoodley, L., (2017). Targeting Microbial Biofilms: Current And Prospective Therapeutic Strategies. Nat. Rev. Microbiol. 15 (12), 740–755

Kusuma, H., and Royanti Vidia, C. N. E (2023). Indeks Keanekaragaman Bakteri Bacillus sp

Lambertz, S., Franke, M., Stelter, M., and Braeutigam, P (2023). Sensing Of Chemical Oxygen Demand (COD) By Amperometric Detection—Dependence Of Current Signal On Concentration And Type Of Organic Species. Environmental

Lambui, O., and Jannah, M (2017). Isolation and Identification of Soil Bacteria in Forest Around Lake Kalimpa'a, Lore Lindu National Park Area, Central Sulawesi. Online Journal of Natural Science, 6(1), 73–82

Liu Y, Yue Z, Sun Z, Li C (2023) Harnessing native Bacil lus spp. for sustainable wheat production. Appl Environ Microbiol 89:e01247-e1322.

Losick, R. M (2020). Bacillus subtilis: A bacterium for all seasons. Current Biology, 30(19), R1146–R1150

Lutfi, S. R., Wignyanto, ignyanto, dan Kurniati, E (2018). Bioremediasi Merkuri Menggunakan Bakteri Indigenous Dari Limbah Penambangan Emas Di Tumpang Pitu, Banyuwangi. Jurnal Teknologi Pertanian, 19(1), 15–24

Mangesa, R., and Kasmawati, K (2020). Isolasi Bakteri Resistensi Merkuri Dari Limbah Penambangan Emas Kabupaten Buru, Maluku (Isolation of Mercury Resistance Bacteria from Gold Mining Waste in Buru District, Maluku). Jurnal Manusia and Lingkungan, 27(1), 33

Mastang (2016). Isolasi and Identifikasi Bakteri Pengakumulasi Logam Berat Timbal (Pb) pada Endapan Sedimen Kanal Sekitar Rumah Susun Kota Makasar. Skripsi. UIN Alaudin Makasar

Megharaj, M., Naidu, R (2017). Soil and Brownfield Bioremediation. Microb. Biotechnol

Melati, I (2020). Teknik Bioremediasi:Keuntungan, Keterbatasan and Prospek Riset

Mere, J. K (2025). Isolasi, Karakterisasi and Seleksi Bakteri Potensial Untuk Bioremediasi Merkuri Dari Beberapa Lokasi Pesk Desa Pongkor, Bogor Jawa Barat. Jurnal Teknologi Kimia UNIMAL

Monachese M, Burton JP, Reid G (2012) Bioremediation and tolerance of humans to heavy metals through microbial processes: a potential role for probiotics? Appl Environ Vol:. (1234567890) Microbiol 78:6397–6404.

Moreno-Brush, M., McLagan, D. S., and Biester, H (2020). Fate Of Mercury From Artisanal And Small-Scale Gold Mining In Tropical Rivers: Hydrological And Biogeochemical Controls. A critical review. Critical Reviews in Environmental Science and Technology, 50(5), 437–475

Nugeraha (2010). Pengolahan Air Limbah Kegiatan Penambangan Batubara

Bioremediasi Merkuri Menggunakan Bakteri Bacillus sp. Dari Limbah Tambang Emas PT. Lampung Kencana
Cikantor (LKC) Sejahtera dan Tambang Emas Rakyat (PESK)
Nuri Oktavia, Ir. Yuni Kusumastuti, S.T., M.Eng., D.Eng. IPM
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Menggunakan Biokoagulan: Studi Penurunan Kadar TSS, Totalfe and Total Mn Menggunakan Biji Kelor (Moringa Oleifera). Jurnal Presitipasi. 7(2): 1907-187

Of Bioremediation And Biosorption Techniques. Chemosphere 357

Ogodo AC, Agawaranze DI, Daji M, Aso RE (2022). Microbial Tecniques and Methods: Basic Techniques and Microscopy. Analytical Techniques in Biosciences.201-220

Pada Urine, Feses and Kalkulus Gigi Pada Individu Di Kecamatan Malalayang, Manado, Sulawesi Utara. e-Biomedik. 2(2): 532-540

Padat (Total Dissolve Solid and Total Suspended Solid) di Perairan Teluk Lampung. Analytical and Environmental Chemistry, 1(1), 36–45

Pamungkas, M. T. O. A (2016). Studi Pencemaran Limbah Cair dengan Parameter BOD 5 and pH di Pasar Ikan Tradisional and Pasar Modern di Kota Semarang. Jurnal Kesehatan Masyarakat. 4(2): 166-175

Pangestu, R. W., Kusbianto, D. E., (2022). Perkebunan, P. S., Pertanian, F., Jember, U., Agroteknologi, P. S., Pertanian, F., and Jember, U. Aplikasi pupuk hayati (biofertilizer) and pupuk ZA terhadap pertumbuhan and hasil tanaman buncis (Phaseolus vulgaris L.). Jurnal Pertanian, 2, 10–19

Pattuju SM, Fatimawali, Manampiring A (2014). Identifikasi Bakteri Resisten Merkuri

Priadie, B (2012). Teknik Bioremediasi Sebagai Alternatif Dalam Upaya Pengendalian Pencemaran Air. Jurnal Ilmu Lingkungan

Priyadarshanee, M. Chatterjee, S. Rath, S. Dash, H. R. Das, S (2022). Cellular and Genetic Mechanism of Bacterial Mercury Resistance and Their Role in Biogeochemistry and Bioremediation. J. Hazard. Mater. 423, 126985

Putra, I., Rusliadi, R., Fauzi, M., et al (2017). Dataset 1 in: Growth performance and feed utilization of African catfish Clarias gariepinus fed a commercial diet reared in the biofloc system enhanced with probiotic. F1000Research

Putri, A. L., and Kusdiyantini, E (2018). Isolasi and Identifikasi Bakteri Asam Laktat dari Pangan Fermentasi Berbasis Ikan (Inasua) yang Diperjualbelikan di Maluku-Indonesia. Jurnal Biologi Tropika, 1(2), 6-12

Rachmawati, S (2017). Analisis Penurunan Kadar COD Air Limbah Industri. Jurnal Teknik Lingkungan, 6(2), 64-68

Ramirez-Olea, H. Reyes-Ballesteros, B (2022). Chavez-Santoscoy, R.A. Potential Application of the Probiotic Bacillus Licheniformis as an Adjuvant in the Treatment of Diseases in Humans and Animals: A Systematic Review. Front. Microbiol. 2022, 13, 1–13,

Rebelo, A.; Mourão, J. Freitas, A. R. Duarte, B.; Silveira, E. Sanchez-Valenzuela, A. Almeida, A. Baquero, F. Coque, T. M. Peixe, L. Antunes, P. Novais, C (2021). Diversity of Metal and Antibiotic Resistance Genes in Enterococcus spp. from the Last Century Reflects Multiple Pollution and Genetic Exchange among Phyla from

UNIVERSITAS
GADJAH MADA
**Bioremediasi Merkuri Menggunakan Bakteri Bacillus sp. Dari Limbah Tambang Emas PT. Lampung Kencana
Cikantor (LKC) Sejahtera dan Tambang Emas Rakyat (PESK)**
Nuri Oktavia, Ir. Yuni Kusumastuti, S.T., M.Eng., D.Eng. IPM
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Overlapping Ecosystems. Sci. 787, 147548

Rial, D., Bellas, J., Vidal-Lin´an, L., Santos-Echeandía, J., Campillo, J.A., Le´on, V.M., Albentosa, M., 2023. Microplastics Increase The Toxicity Of Mercury, Chlorpyrifos And F Luoranthene To Mussel And Sea Urchin Embryos. Environ. Pollut. 336, 122410

Rice, K. M., Walker, E. M., Wu, M., Gillette, C., and Blough, E. R (2014). Environmental Mercury and Its Toxic Effects. Journal of Preventive Medicine and Public Health, 47(2), 74–83

Rinawati, R., Hidayat, D., Suprianto, R., and Dewi, P. S (2016). Penentuan Kandungan Zat

Risdianto, D (2007). Optimisasi Proses Koagulasi Flokulasi Untuk Pengolahan Air Limbah Industri Jamu (studi kasus pt. sido muncul)

Rizka O. Endang N. Sri W (2022). Kemampuan Bacillus sp. Sebagai Bioremediasi Bahan Pencemar. Jurnal Bioterdidik: Wahana Ekspresi Ilmiah

Romadhoni, N., Rohmayani, V., Riesti, A.R.A., Hery, H.P., Nimatuzahroh., Inas.M.R., DNng, R.S (2023). Peran Mikroba Indegenous dalam Bioremediasi Suatu Teknologi Alternatif Untuk Pelestarian Lingkungan di Perairan Mangrove. UM Surabaya

Rosita, M, and Kasmawati (2020). Isolasi Bakteri Resisten Merkuri Dari Limbah Penambang Emas Kabupaten Buru, Maluku. Jurnal Manusia and Lingkungan

Saadah, F.L. Rahmadhini, N (2023). Eksplorasi and Identifikasi Bacillus sp. dari Tanah Rizosfer Bambu and Tomat di Kelurahan Made, Sambikerep, Surabaya. Agrocentrum

Sakinah, I.M. Sulistiyaning, H.T (2022). Kajian Literatur Enhanced Phytoremediation pada Lahan Tercemar Logam Berat Merkuri. Jurnal Teknik ITS

Saputri, I. Fatimatuzzahra, Lestari, Y (2023). Aanlisis Kadar COD (Chemical Oxygen Demand) Pada Limbah Cair disekitar Kawasan Penambangan Batubara Kabupaten Bengkulu Utara. Ejurnal radenintan

Saxena, A. K., Kumar, M., Chakdar, H., Anuroopa, N., and Bagyaraj, D. J (2020). Bacillus Species In Soil As A Natural Resource For Plant Health And Nutrition. Journal Of Applied Microbiology, 128(6), 1583 1594

Selin N. Global Biogeochemical Cycling of Mercury. Massachusetts Institute of Technology. Cambridge. 2009. Vol 34: 43-63

Setiaji, A., Annisa, R. R. R., and Rahmandhias, D. T (2023). Bakteri Bacillus Sebagai Agen Kontrol Hayati and Biostimulan Tanaman. Rekayasa, 16(1), 96–106

Sindhushree, G. Hirak. R.D. Surajit. D (2014). Mercury Resistant Bacterial Population and Characterization. The National Academy of Sciences, India.of Bacillus sp., Isolated From Sediment of Solid Waste Discharged Point of Steel Industry

Soesanto, L (2008). Pengantar Pengendalian Hayati Penyakit Tanaman: Suplemen Ke Gulma and Nematoda. RajaGrafindo Persada

Bioremediasi Merkuri Menggunakan Bakteri Bacillus sp. Dari Limbah Tambang Emas PT. Lampung Kencana
Cikantor (LKC) Sejahtera dan Tambang Emas Rakyat (PESK)
Nuri Oktavia, Ir. Yuni Kusumastuti, S.T., M.Eng., D.Eng. IPM
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Sulastri, A., Jumiati, J., and Desmaiani, H (2024). Skrining and Uji Efektivitas Reduksi Merkuri Oleh Isolat Bakteri Mangrove. Jurnal Teknologi Lingkungan Lahan Basah, 12(1), 124

Sumi, C. D., Yang, B. W., Yeo, I. C., and Hahm, Y. T (2015). Antimicrobial Peptides Of The Genus Bacillus: A New Era For Antibiotics. Canadian Journal of Microbiology, 61(2), 93-103

Suparman, N. F. N., and Retnaningrum, E (2023). Isolasi, Identifikasi, and Uji Potensi Bakteri Laut sebagai Agen Bioremediasi Logam Berat Kromium (Cr). Jurnal Sumberdaya Alam and Lingkungan, 10(3), 114–125

Teng, H., and Altaf, A. R (2022). Elemental Mercury (Hg0) Emission, Hazards, And Control: A Brief Review. Journal of Hazardous Materials Advances, 5, 100049

Uno, Wirnangsi D., and Sri Rahayu Thalib. penyerapan logam berat merkuri (Hg) oleh bakteri bacillus subtillis pada sedimen Danau Limboto. Jambura Edu Biosfer Journal 2.1 (2020): 8-12

US EPA. 2007. Treatment Technologies for Mercury in Soil, Waste, and Water. Washington DC, USA

Varghese, M., and Balachandran, M (2021). Antibacterial Efficiency Of Carbon Dots Against Gram-Positive And Gram-Negative Bacteria: A review. Journal of Environmental Chemical Engineering. 9(6): 1-18

Widiastini, A., and Maisya, Z.A.B (2021). Uji Resistensi Bakteri Endotif Bambu Terhadap Logam Merkuri and Identifikasi Secara Molekuler dengan Analisis Gen 16s rRNA. Jurnal Agricultural

Wrobel, M., Sliwakowaki, W., Kowalczyk, P (2023). Bioremediation of Heavy Metals by the Genus Bacillus. Journal Environ. 20 (6)

Wu, Y.-S., Osman, A. I., Hosny, M., Elgarahy, A. M., Eltaweil, A. S., Rooney, D. W., Chen, Z., Rahim, N. S., Sekar, M., Gopinath, S. C. B., Mat Rani, N. N. I., Batumalaie, K., dan Yap, P.-S (2024). The toxicity of mercury and its chemical compounds: Molecular mechanisms and environmental and human health implications: A comprehensive review. ACS Omega, 9(5), 5100–5126

Yaashikaa, P. P., Palanivelu. J., Hemavath. R.V (2024). Sustainable Approaches For Removing Toxic Heavy Metal From Contaminated Water: A Comprehensive Review

Yanti, DwiIndah Widya and Dali, F.A (2013). Karakterisasi Bakteri Asam Laktat yang Diisolasi Selama Fermentasi Bakasang. Jurnal Pengolahan Hasil Perikanan Indonesia 16(2)

Yazid, M (2014). Peranan Isolat Bakteri Indigenous Sebagai Agen Bioremediasi Perairan yang Terkontaminasi Uranium. Ganendra Journal of Nuclear Science and

Yudya, A (2022). Kerusakan Lingkungan Akibat Kegiatan Penambangan Emas Ilegal Di Kabupaten Murung Raya, (Kalteng). Pusat Publikasi S-1 Pendidikan IPS FKIP ULM

UNIVERSITAS
GADJAH MADA
Bioremediasi Merkuri Menggunakan Bakteri Bacillus sp. Dari Limbah Tambang Emas PT. Lampung Kencana Cikantor (LKC) Sejahtera dan Tambang Emas Rakyat (PESK)
Nuri Oktavia, Ir. Yuni Kusumastuti, S.T., M.Eng., D.Eng. IPM
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Zan, L., Chen, Z., Zhang, B., Zou, X., Lan, A., Zhang, W., Yuan, Y., and Yue, T (2024). Screening, Characterization and Probiotic Properties of Selenium-Enriched Lactic Acid Bacteria. Fermentation, 10(1), 39