

## DAFTAR PUSTAKA

- Alexander, J., Auðunsson, G.A., Benford, D., Cockburn, A., Cravedi, J.P., Dogliotti, E., Domenico, A.D., Cruz, M.L.F., Fürst P., Gremmels, J.F., Galli, C.L., Grandjean, P., Gzyl, J., Heinemeyer, G., Johansson, N., Mutti, A., Schlatter, J., van Leeuwen, R., van Peteghem, C., and Verger, P. 2008. Mercury as Undesirable Substance in Animal Feed, Scientific Opinion of The Panel on Contaminants in The Food Chain. *The European Food Safety Authority Journal*. 654: 1-76.
- Amelia, T.F., Baehaki, Ace., Herpandi. 2016. Aktivitas Reduksi Merkuri pada Bakteri yang Diisolasi dari Air dan Sedimen di Sungai Musi. *Jurnal Teknologi Hasil Perikanan*. 5 (1): 94 – 106.
- Amos, H.M., Jacob, D.J., Streets, D.G., and Sunderland, E.M. 2013. Legacy Impact of All-Time Anthropogenic Emissions on The Global Mercury Cycle. *Global Biogeochemical cycle*. 27: 410-421.
- Andrea, M.A., Nascimento., and Souza, E.C. 2003. Operon *mer*: Bacterial Resistance to Mercury and Potential for Bioremediation of Contaminated Environments. *Genetics and Molecular Research*. 2 (1): 92-101.
- Anzai, Y., Kim, H., Park, J.Y., Wakabayashi, H. and Oyaizu, H. 2000. *Phylogenetic affiliation* of The Pseudomonads Based On 16S rRNA Sequence. *Int. J. Syst. Evol. Microbial*. 50 (4). 1563-1589.
- Barkay, Tamar., Miller, S.M., and Summers, A.O. 2003. Bacterial Mercury Resistance from Atoms to Ecosystems. *FEMS Microbiol Rev*. 27: 355-384.
- Bhambari, P. and Gupta, O.P. 2012. Development of Phylogenetic Tree Based on Kumura's Method. *Proceedings of 2012 2<sup>nd</sup> IEEE International Conference on Parallel, Distributed and Grid Computing*. [https://doi.org/ 10.3382/ps.2011-01738](https://doi.org/10.3382/ps.2011-01738).
- Booris, R., Chen, X.H., Rueckert, C., Blom, J., Becker, A., Baumgharth, B., Fan, B., Pukall, R., Schumann, P., Sproer, C., Junge, H., Vater, J., Puhler, A., and Klenk, H.P. 2011. Relationship of *Bacillus amyloliquefaciens* Clades Associated with Strain DSM 7<sup>T</sup> and FZB42<sup>T</sup>: A Proposal for *Bacillus amyloliquefaciens* subsp. *Amyloliquefaciens* subsp. Nov. and *Bacillus amyloliquefaciens* subsp. *plantarum* subsp. nov. Based on Complete Genome Sequence Comparisons. *International Journal of Systematic and Evolutionary Microbiology*. 61: 1786-1801.

- Bromham, L. 2008. *Reading The Story in DNA: A Beginner's Guide to Molecular Evolution*. New York: Oxford University Press.
- Burnham, K.P. and Anderson, D.R. 2002. *Model Selection and Multimodel Inference A Practical Information-Theoretic Approach*. New York: Springer.
- Chaerun, S.K., Hasani, S., Sanwani, E., and Moeis, M.R. 2012. Mercury (Hg)-Resistant Bacteria in Hg-Polluted Gold Mine Sites of Bandung, West Java Province, Indonesia. *Microbiology Indonesia*. 6 (2): 57-68.
- Chasanah, U., Nuraini, Y., and Handayanto, E. 2018. The Potential of Mercury-Resistant Bacteria Isolated from Small-Scale Gold Mining Tailings for Accumulation of Mercury. *Journal of Ecological Engineering*. 19: 236-245.
- Chiu, H.H., Shieh, W.Y., Lin, S.Y., Tseng, C.M., Chiang, P.W. and Wagner, D.I. 2007. *Alteromonas tagae* sp. nov. and *Alteromonas simiduii* sp. nov., Mercury-Resistant Bacteria Isolated from a Taiwanese Estuary. *Int. J. Syst. Evol. Microbiol.* 57 (6): 1209-1216.
- Cilia, V., Lafay, B., and Christen, R. 1996. Sequence Heterogeneities Among 16S Ribosomal RNA Sequences, and Their Effect in Phylogenetic Analyses at The Species Level. *Mol Biol Evol.* 13: 451-461.
- Dewi, K. dan Ismawati, Y. 2012. *Inventory of Mercury Releases in Indonesia*. Denpasar: BaliFokus.
- Drancourt, M., Bollet, C., and Raoult, D. 1997. *Stenotrophomonas africana* sp. nov., An Opportunistic Human Pathogen in Africa. *International Journal of Systematic Bacteriology*. 47 (1): 160-163.
- Ekyastuti, W. and Setyowati, T.R. 2015. Identification and In Vitro Effectiveness Test of Four Isolates of Mercury-Resistant Bacteria as Bioaccumulation Agents of Mercury. *Procedia Environmental Sciences*. 28: 258-264.
- Esdaile, L.J. and Chalker, J.M. 2018. The Mercury Problem in Artisanal and Small-Scale Gold Mining. *Chem. Eur. J.* 24: 6905–6916.
- Farmer, J.J., Fanning, G.R., Davis, B.R., O'Hara, C.M., Riddle, C., Brenner, F.W.H., Asbury, M.A., Lowry, V.A., and Brenner, D.J. 1985. *Escherichia fergusonii* and *Enterobacter taylorae*, Two New Species of *Enterobacteriaceae* Isolated from Clinical Specimens. *Journal of Clinical Microbiology*. 21 (1): 77-81.
- Fatchiyah., Arumingtyas, E.L., Widyarti, S., dan Rahayu, S. 2011. *Biologi Molekular Prinsip Dasar Analisis*. Jakarta: Erlangga.

- Fatimawali., Kepel, B., Yusuf, I., Badaruddin, F., Natsir, R., and Retnoningrum, D. 2014. Isolation and Characterization of Partial Sequence of *merA* Gene from Mercury Resistant. *Research Journal of Environmental and Earth Sciences* 6(3): 156-160.
- Forgetta, V., Rempel, H., Malouin, F., Vaillancourt, R.J. Topp, E., Dewar, K., and Diarra, M.S. 2011. Pathogenic and Multidrug-Resistant *Escherichia fergusonii* from Broiler Chicken. *Poultry Science*. 91: 512-525.
- Gaastra, W., Kusters, J.G., van Duijkeren, E., and Lipman, L.J.A, 2014. *Escherichia fergusonii*. *Veterinary Microbiology*. 172: 7-12.
- Gomez, K.A. and Gomez, A.A. 2015. *Prosedur Statistik untuk Penelitian Pertanian*. 2<sup>nd</sup> ed. Jakarta: UI Press.
- Gupta. R.C., Milatovic, D., Lal, R., and Srivastava, A. 2018. *Veterinary Toxicology Basic and Clinical Principles, 3<sup>rd</sup> Edition*. India: Book Aid Internasional and Elsevier.
- Gworek, B., Dmuchowski, W., Baczewska, A.H., Bragoszewska, P., Kalabun, O.B., Jakubowska, J.W. 2017. Air Contamination by Mercury, Emissions and Transformations. *Water Air Soil Pollut*. 228-123.
- Habi, S., and Daba, H. 2009. Plasmid Incide, Antibiotic and Metal Resistance among *Enterobacteriaceae* Isolated from Algerian Streams. *Pakistan Journal of Biological Science*. 12 (22): 1474-1482.
- Hackl, E., Boltenstern, Z., Bodrossy, L., and Sessitch, A. 2004. Comparison of Diversities and Compositions of Bacterial Populations Inhabiting Natural Forest Soils. *Applied and Environmental Microbiology*. 70 (9): 5057-5065.
- Hillis, D.M. and Bull, J.J. 1993. An Empirical Test of of Bootstrapping as A Method for Assessing Confidence in Phylogenetic Analysis. *Systematic Biology*. 42: 1982-192.
- Hema, T.G., Getha, K., Tan, G.Y.A., Sahira, H.L., Syamil, A.M., and Fairuz, M.Y.N. 2014. Actinobacteria Isolates from Tin Tailings and Forest Soil for Bioremediation of Heavy Metals. *Journal of Tropical Forest Science*. 26(1): 153-162.
- Huys, G., Cnockraert, M., Janda, J.M., and Swings, J. 2003. *Escherichia albertii* sp.nov., A Diarrhoeagenic Species Isolated from Stool Specimens of Bangladeshi Children. *International Journal Systematic Evolutionary Microbiology*. 53: 807-810.

- Inswiasri. dan Martono, H. 2007. Pencemaran Di Wilayah Tambang Emas Rakyat. *Media Litbang Kesehatan*. 17 (3).
- Irawati, W., Soraya, P.Y., and Baskoro, A.H. 2012. A Study on Mercury-Resistant Bacteria Isolated from a Gold Mine in Pongkor Village, Bogor, Indonesia. *HAYATI Journal of Biosciences*. 19 (4): 197-200.
- Irawati, W., Adolf J.N.P., Nida S., and Juniche A.T. 2016. The Role of Heavy Metals-Resistant Bacteria Using *Eichornia crasippes* [(Mart.) Solms.]. *International Conference on Natural Resource and Life Science*. doi:10.18502/kl.v3i5.995.
- Ismawati, Y. 2010. *Mercury Hotspot in Indonesia*. Denpasar: Balifokus.
- Janda, J.M. and Abbott, S.L. 2007. 16S rRNA Gene Sequencing for Bacterial Identification in The Diagnostic Laboratory: Pluses, Perils, and Pitfalls. *Journal of Clinical Microbiology*. 45 (9). 2761-2764.
- Jawetz, E., Melnick, L. dan Adelberg, A. *Medical Microbiology*. Edisi 23. Jakarta: EGC.
- Jill, E. Claridge. Impact of 16S rRNA Gene Sequence Analysis for Identification of Bacteria on Clinical Microbiology and Infectious Diseases. *Clinical Microbiology Reviews*. 17 (4): 840-862.
- Kearns, D.B. 2010. A Field Guide to Bacterial Swarming Motility. *Nat Rev Microbiol*. 8(9): 634-644.
- Lal, D., and Lal, R. 2010. Evolution of Mercuric Reductase (*merA*) Gene: A Case of Horizontal Gene Transfer. *Microbiology*. 79 (4): 500-508.
- Kemana, C. and Notredame, E. 2009. Upcoming Challenges for Multiple Sequence Alignment Method on The High-Throughput Era. *Bioinformatics*. 25: 1455-1465.
- Lin, Y., Rolf, V., and Larssen, T. 2012. Environmental Mercury in China: A Review. *Environmental Toxicology and Chemistry*. 31 (11): 2431-2444.
- Liu, S., Jin, D., Lan, R., Wang, Y., Meng, Q., Dai, H., Lu, S., Hu, S., Xu, J., *Escherichia marmotae* sp. nov., Isolated from Faeces of *Marmota himalayana*. *International Journal Systematic Evolutionary Microbiology*. 65: 2130-2134.

- Loewen, P. and Triggs, B. 1984. Genetic Mapping of *katF*, A Locus That with *katE* Affect The Synthesis of A Second Catalase Species in *Escherichia coli*. *Journal of Bacteriology*. 160: 668-675.
- Lutfi, S.R., Wigyanto., dan Kurniati, E. 2018. Bioremediasi Merkuri Menggunakan Bakteri Indigenous dari Limbah Penambangan Emas di Tumpang Pitu, Banyuwangi. *Jurnal Teknologi Pertanian*. 19 (1): 15-24.
- Mahbub, K.R., Krishnan, K., Naidu, R., and Megharaj, M. 2017. Mercury Remediation Potential of a Mercury Resistant Strain *Sphingopyxis* sp. SE2 Isolated from Contaminated Soil. *Journal of Environmental Sciences*. 51: 128-137.
- Martins A.S., de Jesus, M.S., Lacerda, M., Moreira, J.C., Filgueiras, A.L.L., and Barrocas, P.R.G. 2008. A Conservative Region of The Mercuric Reductase Gene (*merA*) as A Molecular Marker of Bacterial Mercury Resistance. *Brazilian Journal of Microbiology*. 39: 307-310.
- Mathema, V.B., Thakuri, B.K.C., Silanapaa, M., and Shrestha, R.A. 2011. Study of Mercury (II) Chloride Tolerant Bacterial Isolates from Baghmati River with Estimation of Plasmid Size and Growth Variation for The High Mercury (II) Resistant *Enterobacter* spp. *Journal of Biotech Research*. 3: 72-77.
- McGrath, B. M. and Pembroke, J. T. 2004. Detailed Analysis of The Insertion Site of The Mobile Elements R997, pMERPH, R392, R705 and R391 in *E. coli* K12. *FEMS Microbiol. Lett.* 237 (1): 19-26.
- Misra, T.K. 1992. Bacterial Resistances to Inorganis Mercury Salts and Organomercurials. *Plasmid*. 27: 4-16.
- Mount, D.W. 2001. *Phylogentic Prediction*. In: *Bioinformatic, Sequence, and Genome Analysis*. New York: Cold Spring Harbor Laboratory.
- Naas, T., Aubert, D., Fortineau, N., and Nordamann. 2002. Cloning and Sequencing of The Beta-Lactamase Gene and Surrounding DNA Sequences of *Citrobacter braakii*, *Citrobacter murlinae*, *Citrobacter werkmanii*, *Escherichia fergusonii*, and *Enterobacter cancerogenus*. *FEMS Microbiol.* 215: 81-87
- Nakazawa, K., Nagafuchi, O., Kawakami, T., Inoue, Yokata, K., Serikawa, Y., Cyio, B., and Elvince, R. 2016. Human Health Risk Assessment of Mercury Vapor Around Artisanal Small-Scale Gold Mining Area, Palu City, Central Sulawesi, Indonesia. *Ecotoxicology and Environmental Safety*. 124: 155-162.

- Nascimento, A.M.A. and Souza E.C. 2003. Operon *mer*: Bacterial Resistance to Mercury and Potential for Bioremediation of Contaminated Environments. *Genet Mol Res.* 2 (1): 92-101.
- Nei, M. 1972. Genetic Distance between Populations. *The American naturalist.* 106 (949): 283-292.
- Nei, M. and Kumar, S. 2000. *Molecular Evolution and Phylogenetics.* New York: Oxford University Press.
- Neil, M.O. McPartline, J., Arthure, K. Riedel, S., McMillan, N.D. 2011. Comparion of The TLDA with The Nanodrop and The Reference Qubit System. *Journal of Physycs: Conferences Series.* 307 (1).
- Nishimori, E., Kita, T.K., and Wakabayashi, H. 2000. *Pseudomonas plecoglossicida* sp. nov., the causative agent of bacterial haemorrhagic ascites of ayu, *Plecoglossus altivelis.* *Int. J. Syst. Microbiol.* 50 (1): 83-89.
- Noviardi, R., Handoko A.D., Nurjayati, R., dan Primadona, L., 2016. Pengaruh EDTA terhadap Penyerapan Logam Emas (Au) pada Tailing Amalgamasi oleh Bunga Matahari. *Prosiding Geotek Expo Puslit Geoteknologi LIPI.*
- Nurhikmayani, Risky., Daryono, B.S., and Retnaningrum, E. 2019. Isolation and Molecular Identification of Antimicrobial-Producing Lactic Acid Bacteria from Chao, South Sulawesi (Indonesia) Fermented Fish Product. *Biodiversitas.* 20 (4): 1063-1068.
- Oktari, A., Supriatin, N., Kamal, M., Syafrullah, H. 2017. The Bacterial Endospore Stain on Schaeffer Fulton using Variation of Methylene Blue Solution. *Journal of Physic: Conf.* 812 (1).
- Osborn, A.M., Bruce, K.D., Strike, P., and Ritchie, A. 1997. Distribution, Diversity, and Evolution of The Bacterial Mercury Resistance (*mer*) Operon. *FEMS Microbiology Reviews.* 19: 239-262.
- Pal, Chandan., Asiani, K., Arya, S., Rensing, C., Stekel, D.J., Larsson, D.G.J., and Hobman, J.L. 2017. Metal Resistance and Its Associatiom with Antibiotic Resistance. *Article in Press.*
- Paradis, S., Boissinot, M., Paquette, N., Belanger, S.D., Martel, E.A., Boudreau, D.K., Picard, F.J., Ouellete, M., Roy, P.H., and Bergeon, M.G. 2005. Phylogeny of The *Enterobacteriaceae* Based on Genes Encoding Elongation Factor Tu and F-ATPase  $\beta$ -subunit. *International Journal of Systematic and Evolutionary Microbiology.* 55: 2013-2025.

- Patel, J.B. 2001. 16S rRNA Gene Sequencing for Bacterial Pathogen Identification in The Clinical Laboratory. *Molecular Diagnosis*. 6 (4).
- Patricia, A. and Irawati, W. 2012. *Isolation and Molecular Characterization of Mercury Resistant Bacteria from Gold Mining in Pongkor Village Bogor*. Tangerang: Universitas Pelita Harapan. *Unpublished*.
- Payung, W.T., Fatimawali., dan Kojong, N.S. Identifikasi Secara Biomolekuler dan Uji Daya Reduksi Bakteri Resisten Merkuri yang Diisolasi dari Air di Wilayah Bekas Tambang Emas Rakyat Desa Tanoyan Utara. *Pharmakon Jurnal Ilmiah Farmasi*. 7 (2): 2302-2493.
- Pepi, M., Focardi, S., Tarabelli, A., Volterrani, M., Focardi, S.E., 2013. Bacterial Strains Resistant to Inorganic and Organic Forms of Mercury Isolated from Polluted Sediments of The Orbetello Lagoon, Italy, and Their Possible Use in Bioremediation Processes. *E3S Web of Conferences*. 1, 31002.
- Prasetyawati, E. Triwahyu. 2009. *Bakteri Rhizosfer sebagai Pereduksi Merkuri dan Agensia Hayati*. Surabaya: UPN Press.
- Poulain, A.J. and Barkay, T. 2015. Cracking The Mercury Methylation Code. *Perspectives Environmental Science*. 339: 1280-1281.
- Qodri, I.A., Sipriyadi., and Ruyani, A. Isolation of Mercury Reducing Bacteria from Gold Mining Waste That has The Potential as A Chromium Bioremediation Agent. *Bencoolen Journal of Science Education and Technology*. 1 (1): 19-24.
- Rembuluwani, N., Dacosta, F.A., Gumbo, J.R. 2014. Environmental Risk Assessment and Risk Management Strategies for Abandoned New Union Gold Mine in Malamulele, Limpopo, South Africa. *International Mine Water Association Confernece Proceedings*. Xuzhou: China University of Mining and Technology.
- Riananda, T. 2011. Analisis Sekuensing 16S rRNA di Bidang Mikrobiologi. *Jurnal Kedokteran Syiah Kuala*. 11 (3).
- Rice, G.E., Amborse, R.B., Bullock, O.R., and Swartout, J. 1997. *Mercury Study Report to Congress. Volume III: Fate and Transport of Mercury in The Environment*. United States: United States Environmental Protection Agency.
- Rimjhim, J., Kumar, S.S., Uma, A., Saurabh, K., and Neha, S. 2013. Mercury Toxicity and Its Management. *Int. Res. J. Pharm.* 4 (8).

- Rondonuwu, S.B., Santosa, D.W., Suprihaatin. 2012. Uji Aktivitas Bakteri Merkuri Asal PESK Talawaan-Tatelu, Kabupaten Minahasa Utara, Provinsi Sulawesi Utara. *Forum Pascasarjana IPB*. 35(3): 167-177.
- Sambrook, J., Fritschi, E.F., Maniatis, T. 1989. *Molecular Cloning: A Laboratory Manual, 2<sup>nd</sup> Edition*. New York: Cold Spring Harbor Laboratory.
- Sanders, E.R. 2012. Aseptic Laboratory Techniques: Plating Methods. *Journal of Visualized Experiments*. 63: 1-18.
- Savini, V., Catavittello, C., Talia, M., Manna, A., Pompetti, F., Favaro, M., Fotanta, C., Febbo, F., Balbinot, A., Berardino, F.D., Bonaventura, G.D., Zacom, S.D., Esattore, F., D'Antonio, D. 2008. Multidrug-Resistant *Eschericia fergusonii*: A Case of Acute Cystitis. *Journal of Clinical Microbiology*. 46 (4): 1551-1552.
- Schellhorn, H.E. and Stones, V.L. 1992. Regulation of *katF* and *katE* in *Escherichia coli* K-12 by Weak Acids. *Journal of Bacteriology*. 174 (14): 4769-4776.
- Schlaberg, R., Simmon, K.E., and Fisher, M.A. A Systematic Approach for Discovering Novel, Clinically Relevant Bacteria. *Emerging Infectious Diseases*. 18 (2):422-430.
- Seccatore, J., Marcello V., Chiara O., Tatiane M., and Giorgio D.T. 2014. An Estimation of The Artisanal Small-Scale Production of Gold in The World. *Science of the Total Environment*. 496: 662-667.
- Selayar, N.A., Tumembouw, S., Mondoringin, L.L.J.J. 2015. Telaah Kandungan Logam Berat Merkuri (Hg) di Sekitar Teluk Manado. *Jurnal Budidaya Perairan*. 3 (1): 124-130.
- Selin, Noelle Eckley. 2009. Global Biogeochemical Cycling of Mercury: A Review. *Sumited to Annual Revief of Environemt and Resources*. 34 (1).
- SFEP. 2017. *Tackling Mercury Pollution in the EU and Worldwide*. Bristol: In-depth 15 produced for the European Comissions, DG Environment by the Science Communication Unit, Univeristy of the West of England (UWE).
- Sharma, B., Dangi, A. K., Shukla, P. 2018. Contemporary Enzyme Based Technologies for Bioremediation: A Review. *Journal of Environmental Management*. 210:10-22.
- Sipos, R., Szekely, A.J., Palatinszky, M., Revesz, S., Marialigeti, K. and Nikolausz, M. 2007. Effect of Primer Mismatch, Annealing Temperature and PCR Cycle

- Number on 16S rRNA Gene-Targetting Bacterial Community Analysis. *FEMS Microbiol. Ecol.* 60 (2): 341-350
- Silver, S. and Phung, L.T. 1996. Bacterial Heavy Metal Resistance: New Suprises. *Annu Rev Microbiol.* 50:753-789.
- Sofiyanti, N. dan Isda, M.N. 2019. Paku Kawat *Lycoperdiella cernua* (L.) Pic. Serm. (Lycopodiaceae-Lycopediales) dari Provinsi Riau-Kajian Morfologi dan Sekuen DNA Berdasarkan Primer *RBCL*. *Jurnal Biologi Universitas Andalas.* 7 (1): 43-50.
- Stelmack., P.L., Gray. M.R., and Pickard, M.A. 1999. Bacterial Adhesion to Soil Contaminants in The Presence of Surfactants. *Appl. Environ. Microbiol.* 65: 163-168.
- Subbarayan, P.R. and Sarkar, M. 2004. A Stop Codon-Dependent Internal Secondary Translation Initiation Region in *Escherichia coli rpoS*. *The RNASociety.* 10 (9): 1359-1365.
- Syahputra, A., Mutaqin, K.H., Damayanti, T.A. 2016. Komparasi Metode Isolasi DNA Patogen Antraknosa dan Bulai untuk Deteksi PCR. 12 (4): 124-132.
- Tallei, T.K., Rembet, R.E., Pelealu, J.J., and Kolondam, J. 2016. Sequence Variation and Phylogenetic Analysis of *Sansevieria trifasciata* (Asparagaceae). *Bioscience Research.* 13 (1): 01-07.
- Thairu, Y., Nasir, I.A., and Usman, Y. 2014. Laboratory Perspective of Gram Staining and Its Significance in Investigations of Infectious Desease. *Sub-Saharan Journal of Medicine.* 1: 168-174.
- Tvrzova, L., Schumann, P., Sproer, C., Sedlacek, I., Pacova, Z., Sedo, O., Zdrahal,Z., Steffen, M. and Lang, E. 2006. *Pseudomonas moraviensis* sp. nov. and *Pseudomonas vranovensis* sp. nov., Soil Bacteria Isolated on Nitroaromatic Compounds, and Emended Description of *Pseudomonas asplenii*. *Int. J. Syst. Evol. Microbial.* 56 (11): 2657-2663.
- UNEP. 2013. *Global Mercury Assesment 2013: Sources, Emissions, Releases and Environmental Transport.* Geneva, Switzerland: UNEP Chemical Branch.
- Versalovic, J., Caroll, K.C., Funke, G., Jorgensen, J.H., Landry, M.L., and Warnock, D.W. 2011. *Manual of Clinical Microbiology, 10<sup>th</sup> Edition.* Washington: ASM Press.

- Viallard, V., Poirier, I., Cournoyer, B., Haurat, J., Wiebkin, S., Ophel, K.K. and Balandreau, J. 1998. *Burkholderia graminis* sp. nov., A Rhizospheric *Burkholderia* Species, and Reassessment of [*Pseudomonas*] *phenazinium*, [*Pseudomonas*] *pyrrocinia* and [*Pseudomonas*] *glathei* as *Burkholderia*. *Int. J. Syst. Bacteriol.* 48 (2): 549-563.
- Vijayaraghavan, K. and Yun, Y.S. 2008. Bacterial Biosorbents and Biosorption. *Biotechnology Advances.* 26: 266-291.
- Wang, R.F., Cao, W.W., and Cerniglia, C.E. 1997. Phylogenetic Analysis and Identification of *Shigella* spp. By Molecular Probes. *Molecular and Cellular Probes.* 11: 427-432.
- Weinberg, Jack. 2007. *An NG Introduction to Mercury Pollution.* (<http://www.ipen.org/hgfree>). Diakses pada tanggal 28 November 2020.
- Weiss, A.A., Murphy, S.D., and Silver, S. 1977. Mercury and Organomercurial Resistances Determined by Plasmid in *Staphylococcus aureus*. *Journal of Bacteriology*, 132 (1): 197-208.
- Widhiyatna, Denni. 2005. Pendataan Penyebaran Merkuri Akibat Usaha Pertambangan Emas di Daerah Tasikmalaya Provinsi Jawa Barat. *Kolokium Hasil Lapangan.*
- Winoto, Yunus. 2018. Studi Fenomenologi Makna “Pencemaran Lingkungan” Bagi Para Penambang Emas Tradisional Kabupaten Tasikmalaya. *Jurnal Komunikasi dan Media.* 3 (1).
- Yamaguchi, A., Tamang, G.D., and Saier, M.H. 2007. Mercury Transport in Bacteria. *Water Air Soil Pollut.* 182: 219-234.
- Yan-de.J., Zhen-li, H., and Xiao-e, Y. 2007. Role of Soil Rhizobacteria in Phytoremediation of Heavy Metals Contaminated Soils. *Journal of Zhejiang University Science*, 8 (2): 192-207.
- Yarza, P., Sproer, C., Swiderski, J., Mrotzek, N., Spring, S., Tindall, B.J., Gronow, S., Pukall, R., Klenk, H.P., Lang, E., Verburg, S., Crouch, A., Lilburn, T., Beck, B., Unosson, C., Cardew, S., Moore, E.R., Gomila, M., Nakagawa, Y., Janssens, D., De vos, P., Peiren, J., Suttels, T., Clermont, D., Bizet, C., Sakamoto, M., Iida, T., Kudo, T., Kosako, Y., Oshida, Y., Ohkuma, M., Arahall, R.D., Spieck, E., Pommerening, R.A., Figgie, M., Park, D., Buchanan, P., Cufuebtes, A., Munoz, R., Euzeby, J.P., Sclifer, K.H., Ludwig, W., Amann, R., Glockner, F.O., and Rosello, M.R. Sequencing Orphan Species Initiative (SOS): Filling The Gaps in

The 16S rRNA Gene Sequence Database for All Species with Validly Published Names. *Systematic and Applied Microbiology*. 36: 69-73.

Zhang, T., Kim, B., Levard, C., Reinsch, B.C., Lowry, G.V., Deshusses, M.A., and Kim, H.H. 2012. Methylation of Mercury by Bacteria Exposed to Dissolved, Nanoparticulate, and Microparticulate Mercuric Sulfides. *Environ. Sci. Technol.* 46: 6950–6958.