



DAFTAR PUSTAKA

- Abdelkafi S, Sayadi S, A.G.Z Ben, L. Casalot, dan M. Labat. 2006. Bioconversion of ferulic acid to vanillic acid by *Halomonas elongata* isolated from table-olive fermentation. *FEMS Microbiology Letters* 262:115–120.
- Alva, V. dan B.M. Peyton. 2003. Phenol and catechol biodegradation by the haloalkaliphile *Halomonas campisalis*: influence of pH and salinity. *Environmental Science and Technology* 37:4397–4402.
- Armenante, P. M., D. Kafkewitz, C. J. Jou, dan G. Lewandowski. 1993. Effect of pH on the anaerobic dechlorination of chlorophenols in a defined medium. *Applied Microbiology and Biotechnology* 39: 772-777.
- Cases, I. dan V. de Lorenzo. 2001. The black cat/white cat principle of signal integration in bacterial promoters. *European Molecular Biology Organization Journal* 20:1–11.
- Chaudhry, G.R. dan S. Chapalamadugu. 1991. Biodegradation of halogenated organic compounds. *Microbiology* 55: 59-79.
- Cupples, A.M. dan G.K. Sims. 2007. Identification of in situ 2,4-dichlorophenoxyacetic acid-degrading soil microorganisms using DNA-stable isotope probing. *Soil Biology and Biochemistry* 39: 232–238.
- DasSarma, S. dan Arora P. 2002. Halophiles; in *Encyclopedia of Life Sciences*. Nature Publishing Group. London 8:458–466.
- DiGioia, D., A. Michelles, M. Pierini, S. Bogialli, F. Fava, dan C. Barberio. 2008. Selection and characterization of aerobic bacteria capable of degrading commercial mixtures of low-ethoxylatednonylphenols. *Journal of Applied Microbiology* 104: 231-242.
- DiGiovanni, G.D., J.W. Neilson, I.L. Pepper, dan N.A. Sinclair. 1996. Gene transfer of *Alcaligenes eutrophus* JMP134 plasmid pJP4 to indigenous soil recipients. *Applied and Environmental Microbiology* 62:2521–2526.
- Don, R.H. dan J.M. Pemberton. 1985. Genetic and physical map of the 2,4-dichlorophenoxyacetic acid degradative plasmid pJP4. *Journal of Bacteriology* 161: 466–468.



- Don, R.H., A.J. Weightman, H.J. Knackmuss, dan K.N. Timmis. 1985. Transposon mutagenesis and cloning analysis of the pathways for degradation of 2,4-dichlorophenoxyacetic acid and 3- chlorobenzoate in *Alcaligenes eutrophus* JMP134(pJP4). *Journal of Bacteriology* 161: 85–90.
- Duxbury, J.M., J.M. Tiedje, M. Alexande, dan J.E. Dawson. 1970. 2,4-D metabolism: enzymatic conversion of chloromaleylacetic acid to succinic acid. *Journal of Agriculture Food and Chemistry* 18:199.
- Elbanna, K., G. Hassan, M. Khider, dan R. Mandour. 2010. Safe Biodegradation of Textile Azo Dyes by Newly Isolated Lactic Acid Bacteria and Detection of Plasmids Associated With Degradation. *Journal of Bioremediation and Biodegradation* 1: 110.
- Filer, K. dan A.R. Harker. 1997. Identification of the inducing agent of the 2,4-dichlorophenoxyacetic acid pathway encoded by plasmid pJP4. *Applied and Environmental Microbiology* 63:317–320.
- Fukumori, F. dan R. P. Hausinger. 1993. Purification and characterization of 2,4 dichlorophenoxyacetate/x-ketoglutarate dioxygenase. *Journal of Biological Chemistry* 268: 24311-24317.
- Garcia, M.T., E. Mellado, J.C. Ostos, dan A. Ventosa. 2004. *Halomonas organivorans* sp. nov., a moderate halophile able to degrade aromatic compounds. *International Journal of Systematic and Evolutionary Microbiology* 54: 1723–1728.
- Ghosal, D. dan I.P.S. You. 1988. Nucleotide homology and organization of chlorocatechol oxidation genes of plasmids pJP4 and pHc27. *Molecular and General Genetics* 211: 113- 120.
- Gienfrada, L. dan M.A. Rao. 2008. Interactions between xenobiotics and microbial and enzymatic soil activity. *Environmental Science and Technology* 38: 269-310.
- Goldstein, R.M., L.M. Mallory, M. Alexander. 1985. Reasons for possible failure of inoculation to enhance biodegradation. *Applied and Environmental Microbiology* 50:977–983.
- Gursahani, Y.H. dan S.G. Gupta. 2011. Decolourization of textile effluent by a thermophilic bacteria *Anoxybacillus rupiensis*. *Journal of Petroleum and Environmental Biotechnology* 2:111.
- Hagblom, M.M. 1992. Microbial breakdown of halogenated aromatic pesticides and related compounds. *FEMS Microbiology Letters* 103: 29-72.



- Hebert, A.M. dan R.H. Vreeland. 1987. Phenotypic comparison of halotolerant bacteria: *Halomonas halodurans* sp. nov., nom. rev., comb. nov. *International Journal of Systematic Bacteriology* 37:347–350.
- Hogan, D.A., D.H. Buckley, C.H. Nakatsu, T.M. Schmidt, R.P. Hausinger. 1997. Distribution of the *tfdA* gene in soil bacteria that do not degrade 2,4-dichlorophenoxyacetic acid (2,4-D). *Microbial Ecology* 34:90–96.
- Horvath, R.S. dan M. Alexander. 1970. Co-metabolism: a technique for the accumulation of biochemical products. *Canadian Journal of Microbiology* 16: 1131-1132.
- Hotopp, J.C.D. dan R.P. Hausinger. 2001. Alternative substrates of 2,4-dichlorophenoxyacetate/alphaketoglumate dioxygenase. *Journal of Molecular Catalysis B: Enzymatic* 15:155–162.
- Jame, S.A., A.K.M. Rashidul, A.N.M. Fakhruddin, dan M.K. Alam. 2010. Degradation of Phenol by Mixed Culture of Locally Isolated *Pseudomonas* Species. *Journal Bioremediation Biodegradation* 1: 102.
- Kamagata, Y. R. Fulthorpe, K. Tamura, H. Takami, L.J. Forney, dan J.M. Tiedje. 1997. Pristine environments harbor a new group of oligotrophic 2,4-dichlorophenoxyacetic acid-degrading bacteria. *Applied And Environmental Microbiology* 63:2266–2272.
- Kitagawa, W., S. Takami, K. Miyauchi, E. Masai, Y. Kamagata, J.M. Tiedje, dan M. Fukuda. 2002. Novel 2,4-dichlorophenoxyacetic acid degradation genes from oligotrophic *Bradyrhizobium* sp. strain HW13 isolated from a pristine environment. *Journal of Bacteriology* 184:509–518.
- Lefebvre, O. 2004. Application des micro-organismes halophiles au traitement des effluents industriels hypersalins. thesis. Ecole Nationale Supérieure Agronomique, Montpellier.
- Lefebvre, O. dan Moletta R. 2006. Treatment of organic pollution in industrial saline wastewater. *Water Research* 40:3671– 3682.
- Lerda, D. dan R. Rizzi. 1991. Study of reproductive function in persons occupationally exposed to 2,4-dichlorophenoxyacetic acid (2,4-D). *Mutation Research* 262: 47-50.
- Leveau, J.H.J., F. Konig, H. Fuchslin, C. Werlen, J.R. dan van der Meer. 1999. Dynamics of multigene expression during catabolic adaptation of *Ralstonia eutropha* JMP134 (pJP4) to the herbicide 2,4-dichlorophenoxyacetate. *Molecular Microbiology* 33:396–406.



- Litchfield, C.D. 1998. Survival strategies for microorganisms in hypersaline environments and their relevance to life on early Mars. *Meteorit Planet Science* 33:813–819.
- Maltseva, O.C. McGowan, R. Fulthorpe, dan P. Orie. 1996. Degradation of 2,4-dichlorophenoxyacetic acid by haloalkaliphilic bacteria. *Microbiology* 142: 1115-1122.
- NPIC. 2012. 2,4-D: Technical Fact Sheet. npic.orst.edu/ingred/24d.html Diakses Tanggal 25 Maret 2015.
- Oren, A. 2002. Diversity of halophilic microorganisms: environments, phylogeny, physiology, and applications. *Journal of Industrial Microbiology and Biotechnology* 28:56–63.
- Rosenberg, A. 1983. *Pseudomonas halodurans* sp. nov., a halotolerant bacterium. *Archives of Microbiology* 136:117–123.
- Sethy, N.K., V.N. Jha, S.K. Sahoo, A.K. Shukla, dan R.M. Tripathi. 2011. Ground Water Ingestion Dose Due to Intake of Radionuclide to Population Around Uranium Mining Complex at Jaduguda. *Journal Ecosystem Ecography* 1: 104.
- Sharma, SK, M. Saxena, T.K. Mandal, Y.N. Ahammed, dan H. Pathak. 2011. Variations in Mixing Ratios of Ambient Ammonia, Nitric Oxide and Nitrogen Dioxide in Different Environments of India. *Journal Food Processing And Technology* 1: 101.
- Singh, D.K. 2008. Biodegradation and bioremediation of pesticide in soil: concept, method and recent developments. *Indian Journal of Microbiology* 48: 35-40.
- Spain, J. dan S.F. Nishino. 1987. Degradation of 1,4 dichlorobenzene by a *Pseudomonas* sp. *Applied And Environmental Microbiology*. 53: 1010-1019.
- Speight, J.G. 1998. *The Chemistry and Technology of Petroleum*. New York, Marcel Dekker, 3: 1-202.
- Sufita, J. dan Mormile M. 1993. Anaerobic Biodegradation of Known and Potential Gasoline Oxygenates in the Terrestrial Subsurface. *Environmental Science and Technology* 27: 976-978.
- Tan, H.M. 1999. Bacterial catabolic transposons. *Applied Microbiology and Biotechnology* 51:1–12.
- Tang, W. T. dan L. S. Fan. 1987. Steady state phenol degradation in a draft-tube, gas-liquid-solid fluidized-bed bioreactor. *American Institute of Chemical Engineers journal* 33: 239-249.



- Trefault, N.P. Clement, M. Manzano, D.H. Pieper, dan B. González. 2002. The copy number of the catabolic plasmid pJP4 affects growth of *Ralstonia eutropha* JMP134 (pJP4) on 3-chlorobenzoate. *FEMS Microbiology Letters* 212: 95–100.
- Varsha, Y.M., D. Naga, C. Sameera. 2011. An Emphasis on Xenobiotic Degradation in Environmental Clean up. *Journal Bioremediation and Biodegradation* 11: 001.
- Wijngaard, A.R.D., Wind, dan D.B. Janssen. 1993. Kinetics of bacterial growth on chlorinated aliphatic compounds. *Applied and Environmental Microbiology* 59: 2041-2048.