

6. DAFTAR PUSTAKA

Adams, M.A., M. Bolger, C.D. Carrington, C.E. Coker, G.M. Cramer, M.J. DiNovi & S. Dolan (1993^a). *Guidance Document for Cadmium in Shellfish*. Guidance Documents for Trace Element in Seafood (Washington DC: National Academy Press).

Adams, M.A., M. Bolger, C.D. Carrington, C.E. Coker, G.M. Cramer, M.J. DiNovi & S. Dolan (1993^b). *Guidance Document for Lead in Shellfish*. Guidance Documents for Trace Element in Seafood (Washington DC: National Academy Press).

Afiati, N. (2000). Peran toksikologi dalam pengelolaan wilayah pesisir. A paper to be presented at the Contribution of Toxicology in Environmental Management, Semarang, Maret, 15. (in Bahasa Indonesia) (*to appear*).

Ahmed, F.E. (editor) (1991). *Seafood Safety*. National Academy Press. Washington D.C.

Ahsanullah, M.; M.C. Mobley & D.S. Negilski (1984). Accumulation of cadmium from contaminated water and sediment by the shrimp *Callinassa australiensis*. *Marine Biology* 82: 191-197.

Aitken, A.; I.M. Mackie; J.H. Merritt & S.M. Windsar. (editor) (1982). *Fish Handling and Processing*. Ministry of Agricultural. Edinburgh.

Anonim (1992). International Programme on Chemical Safety. Environmental Health Criteria 135: Cadmium-Environmental Effect. WHO. Macmillan. Geneva.

Anonim (1994). *Atlas Dunia*. Buana Raya. Jakarta.

Anonim (1996). *Trace Element in Human Nutrition and Health*. WHO. Macmillan. Geneva.

Anonim (1998). International Programme on Chemical Safety. Environmental Health Criteria 200: Copper. WHO. Macmillan. Geneva.

Anonim (1999^a). *Peta Kotamadya Dati II Semarang*. Karya Pembina Swajaya. Surabaya

Anonim (1999^b). Peta Kabupaten Dati II Demak. Karya Pembina Swajaya. Surabaya

Atlas, R.M. & R. Barthes (1981). *Microbial Ecology Fundamental & Application*. Addison-Wesley Publ.Co. Philippines.

Azenha, M.; M.T. Vasconcelos & J.P.S. Cabral (1995). Organic ligands reduce copper toxicity in *Pseudomonas syringae*. *Environmental Toxicology and Chemistry* 14(3): 369-373.

Babukutty, Y. & J. Chacko (1995). Chemical partitioning and bioavailability of lead and nickel in an estuarine system. *Environmental Toxicology and Chemistry* 14(3): 427-434.

Banwart, G.J. (1989). *Basic Food Microbiology* 2nd. Chapman & Hall. New York.

Baudrimont, M.; J. Metivaud; R.M. Brachet; F. Ribeyre & A. Boudou (1997). Bioaccumulation and metallothionein response in the asiatic clam (*Corbicula fluminea*) after experimental exposure to cadmium and inorganic mercury. *Environmental Toxicology and Chemistry* 16(10): 2096-2105.

Blackburn, C.d.W. (1993). Rapid and alternative methods for the detection of salmonellas in food. *Journal of Applied Bacteriology* 75: 199-214.

Browne, D.R., A. Husni, M..J. Risk, J. Evles (1999). Exposure Assessment : Heavy Metals In Marine Biota of Coastal Indonesia. UNDIP-McMaster Collaborative Project in Coastal Zone Eco-Development. <http://informer2.cis.mcmaster.ca/mich/indo.htm>.

Broom, M.J. (1985). *The Biology and Culture of Marine Bivalve Molluscs of The Genus Anadara*. ICLARM. Manila.

Cappuccino, J.G. & N. Sherman. (1983). *Mirobiology, a laboratory*. Addison Wesley Publ.Co. Massachusetts.

Chan, H.M.; M.Trifonopoulos; A.Ing; O. Receveur & E. Johnson (1999). Consumption of freshwater fish in Kahnawake: risk and benefits. *Environmental Research Section A* 80: S213-S222.

Chan, H.M. & P.S.Rainbow (1993). The accumulation of dissolved zinc by the shore crab *Carcinus maenas* (L.). *Ophelia* 38(1): 13-30.

Chua, H.; P.H.F. Yu; S.N. Sin & M.W.L. Cheung (1999). Sub-lethal effects of heavy metals on activated sludge microorganisms. *Chemosphere* 39(15): 2681-2692.

Chung, H.; L.-A. Jaykus; G. Lovelace & M.D. Sobsey (1998). Bacteriophages and bacteria as indicators of enteric viruses in oysters and their harvest water. *Water Science and Technology* 38(12): 37-44.

Coelho, M.P.P.; M.E. Marques & J.C. Roseiro (1999). Dynamics of microbiological contamination at a marine recreational site. *Marine Pollution Bulletin* 38(12): 1242-1246.

Cope, W.G.; J.G. Wiener & G.J. Atchison (1994). Hepatic cadmium, metal-binding proteins and bioaccumulation in bluegills exposed to aqueous cadmium. *Environmental Toxicology and Chemistry* 13(4): 553-562.

Currie, R.S.; D.C.G. Muir; W.L. Fairchild; M.H. Holoka & R.E. Hecky (1998). Influence of nutrient additions on cadmium bioaccumulation by aquatic invertebrates in littoral enclosures. *Environment Toxicology and Chemistry* 17(12): 2435-2443.

Depledge, M.H. & P.S.Rainbow (1990). Models of regulation and accumulation of trace metals in marine invertebrates. *Compiler of Biochemical Physiology* 97C(1): 1-7.

Devescovi, M & C. Lucu (1995). Seasonal changes of the copper level in shore crabs *Carcinus mediterraneus*. *Marine Ecology Progress Series* 120: 169-174.

Dewi, I.C. (2001). Concentration of Trace Metal Element in Rice and Their Dietary Exposure by Population of The Volcanic Ecosystem of Asembagus, Jawa Timur. A comparison between irrigation water with unpolluted water and natural acid surface intake. Skripsi. Unika Soegijapranata. Semarang.

Ekanem, E.O. & B.N. Otti (1997). Total plate count and coliform level in Nigerian periwinkles from fresh and brackish water. *Food Control* 8(2): 87-89.

Fardiaz, S. (1992). Mikrobiologi Pangan 1. Cetakan Pertama. Gramedia Pustaka Utama. Jakarta.

Farley, D. (1998). Dangers of Lead Still Linger. FDA Cosumer January-February. U.S. FDA.

Gabutti, G.; A.D. Donno; F. Bagordo & M.T. Montagna (2000). Comparative survival of faecal and human contaminants and use of *Staphylococcus aureus* as an effective indicator of human pollution. *Marine Pollution Bulletin* 40(8): 697-700.

Gaman, P.M. & K.B. Sherrington (1994). Ilmu Pangan, Pengantar Ilmu Pangan, Nutrisi dan Mikrobiologi, 2nd ed. Gadjah Mada University Press. Yogyakarta.

Giller, K.E.; E. Witter & S.P. McGrath (1998). Toxicity of heavy metals to microorganisms and microbial processes in agricultural soils: a review. *Soil Biol. Biochem.* 10(11): 1389-1414.

Groten, J.P. & P.J. van Bladeren (1994). Cadmium bioavailability and health risk in food. *Trends in Food Science and Technology* 5: 50-55.

Hadioetomo, R.S. (1993). Mikrobiologi Dasar dalam Praktek. Teknik Prosedur dasar Laboratorium. PT. Gramedia. Jakarta.

Han, B.C. & T.C. Hung (1990). Green oyster caused by copper pollution in the Taiwan Coast. *Environmental Pollution* 65: 347-362.

Han, B.C.; W.L. Jeng; Y.N. Tsai & M.S. Jeng (1993). Depuration of copper and zinc by green oysters and blue mussels of Taiwan. *Journal of Environment Pollution* 82 : 93-97.

Han, B.C.; W.L. Jeng; T.C. Hung & M.S. Jeng (1994). Copper intake and health threat by consuming seafood from copper-contaminated coastal environment in Taiwan. *Journal of Environmental Toxicology and Chemistry* 13(5): 775-780.

Hantoro, I (2000). Metals Content, Microbial Composition and Biomass Reduction of Tissue of Commercially Important Cockle (*Anadara granosa*) from Coastal Areas In Semarang and Kendal. Skripsi. Unika Soegijapranata. Semarang.

Hendriks, A.J.; H. Pieters & J. de Boer (1998). Accumulation of metals, polycyclic (halogenated) aromatic hydrocarbons, and biocides in zebra mussel and eel from the Rhine and Meuse Rivers. *Environmental Toxicology and Chemistry* 17(10): 1885-1898.

High, K.A.; V.J. Barthelet; J.W. McLaren & J.S. Blais (1997). Characterization of methallothionein-like protein from zebra mussels (*Dreissena polymorpha*). *Environmental Toxicology and Chemistry* 16(6): 1111-1118.

Ibrahim, N. (1995). Trace element content of Malaysian cockles (*Anadara granosa*) *Journal of Food Chemistry* 54 : 133-135.

Ibrahim, N. & I. Mat. (1995). Trace element content in relation to the body weight of the marine bivalve, *Anadara granosa* with special reference to the application of INAA and ICP-AES analytical techniques. *Journal of Radio Analytical and Nuclear Chemistry*. 195(1): 203-208.

Jay, J.M. (1986). Modern Food Microbiology. Van Nostrand Reinhold Company. New York.

John, L. & T.V. Fernandes (1998). Incidence of trace metals in *Scylla serrata*, an edible crab from Ashtamudi estuary, India. *Journal of Environmental Biology* 19(2): 99-106.

Jorhem, L.; J. Engman; B. Sundstrom & A.M. Thim (1994). Trace element in crayfish: regional differences and changes induced by cooking. *Archives of Environmental Contamination Toxicology* 26: 137-142.

Kepes, G. (editor) (1993). The Modular Principal and Biological Form: In Module, Proportion, Symmetry, and Rhythm. Vision and Value series. New York.

Kraak, M.H.S.; D. Lavy; H. Schoon; M. Toussaint; W.H.M. Peeters & N.M van Straalen (1994). Ecotoxicity of mixtures of metals to the zebra mussel *Dreissena polymorpha*. *Environmental Toxicology and Chemistry* 13: 109-114.

- Knauer, J & P.C. Southgate (1997). Growth and fatty acid composition of pacific oyster (*Crassostrea gigas*) spat fed a microalga and microcapsules containing varying amounts of eicosapentaenoic and docosahexaenoic acid. *Journal of Shellfish Research* 16(2): 447-453.
- Koutsoumanis, K. & G.J.E. Nychas (2000). Application of a systematic experimental procedure to develop a microbial model for rapid fish shelf life prediction. *International Journal of Food Microbiology* 60:171-184.
- Lay, B.W. (1994). Analisis Mikrobia di Laboratorium. PT. Raja Grafindo Persada. Jakarta.
- Ledin, M. (2000). Accumulation of metals by microorganisms – processes and importance for soil systems. *Earth Science Reviews* 51: 1-31.
- Lind, Y.; A.W. Glynn; J. Engman & L. Jorhem (1995). Bioavailability of cadmium from crab hepatopancreas and mushroom in relation to inorganic cadmium: a 9-week feeding study in mice. *Food Chemistry Toxicology* 33(8): 667-673.
- Mat, I.; M.J. Maah & A. Johari (1994). Trace metals in sediment and potential availability to *Anadara granosa*. *Archives of Environmental Contamination Toxicology* 27: 54-59.
- Moffat, C.F. & K.J. Whittle (1999). Environmental Contaminants in Food. Sheffield Academic Press. Sheffield.
- Muthiah, P., K.A. Narasimhan, C.P. Gopinathan & D.Sundararajan (1992). Larval rearing, spat production and juvenile growth of the blood clam *Anadara granosa*. *Journal of Marine Biology Association India* 34 (1&2):138-143.
- Nelson, W.G.; B.J. Bergen & D.J. Cobb (1995). Comparison of PCB and trace metal bioaccumulation in the blue mussel, *Mytilus edulis*, and ribbed mussel, *Modiolus demissus*, in New Bedford Harbor, Massachusetts. *Environmental Toxicology and Chemistry* 14(3): 513-521.
- Nocciolini, S; L. Spadafina; M.R. Vacri; E. Bacci (2000). A simple bacterial index for relative water quality: Preliminary application in the Orbetello lagoon (Tuscany, Italy). *Chemosphere* 41: 1065-1069.

- Osuna, F.P. & L.T. Mayen (1995). Distribution of heavy metals in tissues of the shrimp *Penaeus californiensis* from the Northwest Coast of Mexico. *Bulletin Environmental Contaminant Toxicology* 55: 209-215.
- Pigott, G.M. & B.W. Tucker (1990). Seafood: effects of technology on nutrition. Marcel Dekker, Inc. New York.
- Potter, N.N. & J.H. Hotchkiss. (1996). Food Science. Chapman & Hall, Inc. New York.
- Rainbow, P.S. (1995). Physiology, physicochemistry and metal uptake – a crustacean perspective. *Marine Pollution Bulletin* 31(1-3): 55-59.
- Rainbow, P.S. (1990). The significance of accumulated heavy metal concentrations in marine organisms. *Marine Pollution Bulletin* 21:321-324.
- Rainbow, P.S. & S.L. White (1989). Comparative strategies of heavy metal accumulation by crustaceans: zinc, copper and cadmium in a decapod, an amphipod and a barnacle. *Hidrobiologia* 174: 245-262.
- Ray, B. (1996). Fundamental Food Microbiology. CRC Press. New York.
- Ripabelli, G.; M.L. Sammarco; G.M. Grasso; I. Fanelli; A. Caprioli & I. Luszi (1999). Occurrence of *Vibrio* and other pathogenic bacteria in *Mytilus galloprovincialis* (mussels) harvested from Adriatic Sea, Italy. *International Journal of Food Microbiology*. 49: 41-48.
- Robinson, W.E.; D.K. Ryan; P.A. Sullivan & C.C. Boggs (1997). Cadmium binding in the blood plasma of two marine bivalves. *Environmental Toxicology and Chemistry* 16(6): 1195-1202.
- Rosmawati, P.; M. Suherman; S. Nasran & P. Sumpeno (1987). Konstruksi & efektivitas depurasi terhadap bakteri *E. coli*. *Jurnal Penelitian Pasca Panen Perikanan*. LION-LIPI. Jakarta.
- Sarmani, S. & A.A. Majid (1994). Dietary intake of toxic trace elements from seafood consumption in Malaysia. In B. Widianarko, K. Vink & N.M. van Straalen (eds):

Environmental Toxicology in South East Asia. VU Uniververity Press. Amsterdam. Pp 209-213.

Sbrilli, G.; M. Cruscanti; M. Bucci; C. Gaggi & E. Bacci (1997). Marine heterotrophic bacteria as indicators in the quality assessment of coastal waters: Introducing the "apparent bacterial concentration" approach. *Environmental Toxicology and Chemistry* 16(2): 135-139.

Shahidi, F. & J.R. Botta. (1994). Seafoods : Chemistry, Processing, Technology and Quality. Blackie Academic . London.

Shatenstein, B.; T. Kosatsky; S. Nadon, S. Lussier-Cacan & J.-P. Weber (1999). Reliability and relative validity of fish consumption data obtained in an exposure assessment study among Montreal-area sportfishers. *Environmental Research Section A* 80: S71-S86.

Skanavis, C. & W.A. Yanko (2001). *Clostridium perfringens* as a potential indicator for the presence of sewage solids in marine sediment. *Marine Pollution Bulletin* 42(1): 31-35.

Soepomo. (1994). Ilmu dan Teknologi Daging. Cetakan Kedua. Gajah Mada University Press. Yogyakarta.

Solic, M.; N. Krstulovic; S. Jozic & D. Curac (1999). The rate of concentration of faecal coliforms in shellfish under different environmental condition. *Environment International* 25(8): 991-1000.

Spiegel, M.R.; I Nyoman S. & Ellen G. (1996). Statistika. 2nd.ed. Erlangga. Jakarta.

Sudarisman, T & Elvina (1996). Petunjuk Memilih Produk Ikan dan Daging. Penebar Swadaya. Jakarta.

Sudarmadji, S.; B. Haryono & Suhardi. (1996). Analisa Bahan Makanan dan Pertanian. Liberty. Yogyakarta. ✓

Sudibyso (1999). Ratio of blood and gingiva lead content as a parameter for chronic lead poisoning. *Mediagama* I(3).

Sugianto, D.N. (1998). Bioaccumulated level of lead (Pb) in soft tissue of "Kerang Bulu" (*Anadara inflata reeve*) as bioindicator of pollutant under laboratories. *Environmental Journal* 8-12.

Suhardjo & C.M. Kusharto. (1992). Prinsip-Prinsip Ilmu Gizi. Kanisius. Yogyakarta.

Sulistiyawati, I. (2001). Trace Metal and Nutritional Contents of Cockle *Anadara granosa* from Several Location at Northern Coast of Central Java. Thesis. Unika Soegiapranata. Semarang.

Supranto, J. (1994). Statistik, Teori dan Aplikasi. 5th ed. Erlangga Jakarta.

Tahvonen, R. & J. Kumpulainen. (1996). Content of lead and cadmium in selected fish species consumed in Finland in 1993-1994. *Food Additives and Contaminants* 13(6): 647-654.

Takarina, N.D. (1998). Heavy metal levels in survicial river sediment from Semarang, Central Java, Indonesia. *Environmental Journal* 35-40.

Tortorello & Reineke (2000). Direct enumeration of *Eschericia coli* and enteric bacteria in water, beverages and sprouts by 16S rRNA *in situ* hybridization. *Food Microbiology* 17: 305-313.

Ulberg, Z. (1997). Membrane processes in the resistance of microorganisms to heavy metals. *Workshop Follow-Up* 524-525.

Vakily, J.M. (1992). Determination and comparison of bivalve growth, with emphasis on Thailand and other tropical areas. ICLARM Tech. Rep. 36, 125p.

Vasconcelos, M.T.S.D.; M.A.O. Azenha & J.P.S. Cabral (1997). Comparison of availability of copper(II) complexes with organic ligands to bacterial cells and to chitin. *Environmental Toxicology and Chemistry* 16(10): 2029-2039.



Vogt, G.; E.T. Quinito (1994). Accumulation and excretion of metal granules in prawn, *Penaeus monodon*, exposed to water-borne copper, lead, iron and calcium. *Aquatic Toxicology* 28: 223-241.

Whitten, T.; R.E. Soeriaatmadja & S.A. Afiff. (1996). The Ecology of Java and Bali. Periplus Editions (HK) Ltd. Hongkong.

Widianarko, B. (1997). Urban Ecotoxicology : Spatial and Temporal Heterogeneity of Pollution. Faculty of Biology. Ph.D. Thesis. VU Amsterdam.

Widianarko, B. (2000). Bioindication of urban metal pollution using the Guppy, *Poecilia reticulata*. *Lingkungan & Pembangunan* 20(2): 202-217.

Widianarko, B., I. Sulistyawati & N.M. van Straalen (2001^a). Dietary exposure to logam berat in cockles, *Anadara granosa* from four sites along the north coast of Central Java, Indonesia. (submitted).

Widianarko, B., M. Leliveld, S. A. Pujilestari & N.M. van Straalen (2001^b). Food safety risk of trace metals in the Crab *Scylla serrata* from the coastal area of Semarang, Indonesia. (submitted).

Widianarko, B. & N.M. van Straalen (2000). Spatial distribution of logam berat in sediment from urban streams of Semarang, Central Java, Indonesia. *Ecotoxicology & Environmental Safety* 46: 101-107.

Winarno, F.G. (1997). Kimia Pangan dan Gizi. Gramedia Pustaka Utama. Jakarta.

Yang, L.; W.S. Chang & M.N.L. Huang (2000). Natural disinfection of wastewater in marine outfall fields. *Wat. Res.* 34(3): 743-750.

Zanders, I.P. & W.E. Rojas (1996). Salinity effects on cadmium accumulation in various tissues of the tropical fiddler crab *Uca rapax*. *Environmental Pollution* 94(3): 293-299.