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## Bibliography

A.P.H.A. (American Public Health Association), American Water Works Association and Water Environmental Federation (1995). Standard Methods for the Examination of Water and Wastewater, 19th ed., American Public Health Association, Washington, DC.

Adham, K.G. (2002). Sublethal effects of aquatic pollution in lake Maryut on the African sharp tooth catfish, *Clarias gariepinus* (Burchell, 1822). *J. Appl. Ichthyol.* 18, 87 – 94.

Akarte, S.R. and Mane, U.H. (1988). Toxicity of folithion to three species of freshwater bivalve molluscs in different seasons. *J. Environ. Biol.* 9 (1), 27 – 38.

Alabasetr, J.S. and Lloyd,R.,(1980). Water quality criteria for fresh water fish, Butterworths. London.

Almar, M.M., Ferrando, M.D., Alarcon, V., Soler, C. and Andreu, E. (1988). Influence of temperature on several pesticides toxicity to *Melanopsis dufouri* under laboratory conditions, *J. Environ. Biol.*, 9(2), 183-190.

Ambrose T., Cyril Arun Kumar, Vincent and Lambert (1994). Biochemical responses of *Cyprinus carpio communis* to toxicity of tannery effluent, *J. Ecobiology*, 6(3), 213-216.

Anitha Kumati and Sree Ram Kumar (1997). Histopathological alterations induced by aquatic pollutants in *Channa punctatus* from Hussain sagar lake (A.P.), *J. Environ. Biol.*, 18 (1), 11-16.

Ansari, B.A. and Kumar, K. (1987). Malathion toxicity: effect on the ovary of zebra fish *Brachydaniorerio*. Int. Rev. Hydrobiol., 72, 512 – 528.

Arunkumar, R.I., Rajasekaran, P., Michel, R.D. (2000). Differentail effect of chromium compounds on the immune response of the African muoth breeder *Oreochromis mossambicus* (Peters). Fish shellfish Immunol. 10, 667-676.

Athappan, P.R., Sethuraman and Kannan (1982). A study on the pollution of river Vaigai at Madhurai. IJEP, 12(11) : 818-823.

Athikesavan, S. Vincent, S., Ambrose, T. and Velmurugan, B. (2006). Nickel induced histopathological changes in differetn tissues of fresh water fish, *Hypophthalmichthys molitrix* (Valenciennes), J. Environ. Biol., 27 (2), 391-395.

Awari S.B. and Gaikwad S.B. (1990). Cadmium toxicity on *Ambassis ranga* (Hjailton- Buchanan), Trends in Ecotoxicology, AEB, 89-92.

Babu Ram, P. K. Bajpai and Parwana, H.K. (1996). Characterization and pretreatment of tannery wastewater – A case study. IJEP, 17(3) , 175-183.

Baby, K.V. and Menon, N.R. (1986). Oxygen uptake in the brown mussel, *Perna indica* (Kuriakose and Nair) under sulethal stress of mercury, cadmium and zinc. 15, 127 – 128.

Baintenico, Y.U. (1974). Isoenzyme of aspirate aminotrasferase in acute dichloroethane poisoning Gig. T. Prof. Labo., 7, 16 – 47.

Balavenkatasubbaiah, M., G. Hardold Philip, K.R. Purushotham and R. Rama Murthy. (1984). Effects of mercury on oxygen consumption of fresh water mussel, *Lamellidens marginalis*. Geobios. 11, 87 – 89.

- Barker S. B. and Summerson, W. H., (1974). Colorimetric determination of lactic acid in biological material. *J. Biol. Chem.* 138: 535-554.
- Basha, S.M., Swami, K.S. and Pushpanjali, A. (1988). Cillary ad cardiac activity of freshwater mussel, *Lamellidens marginalis* (Lamark) as an index of evaluating organophosphate toxicity. *J. Environ. Biol.*, 9 (3 Suppl.), 313 – 318.
- Bayne, B.L., Holland, D.L., Moore, M.N., Lowe, D.M. and Widdows, J. (1978). Further studies on the effects of stress in the adult on the eggs of *Mytilus edulis*. *J. Mar. Biol. Ass. UK.* 58, 825-841.
- Bender, M.E. and Westman, J.R. (1976). The toxicity of malathion and its hydrolysis products to the Eastern Mud Minnow, *Umbra pygmae* (Dekay). *Chesapeake Science*, 17, 125-128.
- Bergmeyer H. U. and Bernt E. (1965a). Glutamate - oxaloacetate transaminase, In: *Methods of enzyme analysis* (Ed Bergmeyer) Academic Press New York 837 - 847.
- Bhatnagar, M.C., Bana A.K. and Tyagi Meenakshi (1992). Respiratory distress to *Clarias batrachus* (Linn.) exposed to endosulfan- A histological approach, *J. Environ. Biol.*, 13(3), 227 – 231.
- Bhavan Saravana and Geraldine (2004). Profiles of acid and alkaline Phosphatase in the prawn *Macrobrachium Malcolmsonii* exposed to endosulfan. *J. Environ. Biol.*, 25 (2), 213 – 219.
- Black, E.C., Robertson, L.K. and Chiu, W.G. (1962). Changes in glycogen, pyruvate and lactate in the rainbow trout, *Salmo gairdneri* during and following muscular activity , *J. Fish. Res. Bd. Can.*, 19, 409.

Borah sabita and Yadav R.N.S. (1996). Effects of rogor (30% w/w dimethonate) on the activity of lactate dehydrogenase, acid and alkaline phosphatase in muscle and gill of a freshwater fish, *Heteropneustes fossilis*. *J. Environ. Biol.*, 17 (4), 279 – 283.

Borgatti, Pagliarani, Ventrella, Manuzzi, Trombetti, Pirini and Trigari (2003). Na,K-ATPase and Other Parameters in Bivalve Molluscs from the Adriatic Sea under Different Environmental Conditions, *Veterinary Research Communications*, 27 Suppl. 1 207–210.

Bosnic, M., J. Buljan J. and R. P. Daniels R. P.(2000). Pollutants in tannery effluents, Regional Programme for Pollution Control in the Tanning Industry in South East Asia, UNIDO, 3-26.

Brycesmith and Waddson (1974). Lead behavior and criminality, *The Ecology*, 2,4-10.

Bureau of Environmental Health Assessment, (1997) : Woburn childhood leukemia follow- up study, Massachusetts Department of Public Health,

Butterworth J. and Probert, A. J., (1970). Non-specific phosphomonoesterases of *Ascaris scom*. Effect of inhibitors, activators and chelators. *Exp. Parasitol.*, 28: 557 - 561.

Cairns, J. and Dickson, K.L. (1956). Studies evaluating the biological effects of thermal additions to aquatic ecosystems. *Biol. Rev.*, 11, 1-53.

Chakraborty, R.N. and Basu, S.K. (1989). Effluent treatment in leather processing industries. *Ind. J. Environ. Protect.*, 9(12) : 904-908.

Chambers, J.E. and Yarabraugh J.D. (1974). Parathion and methyl parathion toxicity to insecticides resistanceand susceptibile mosquito fish (*Gambusia offinis*). *Bull. Environ. Contam. Toxicol.*, 11, 315.

Chandrarathy and S.L.N. Reddy. (1991). In vivo recovery in glycogen metabolism of fresh water fish, *Anabas scandens* after exposure to lead mixture. *Indian J. Environ. Toxicol.* 1, 53-58.

Chandrarathy and S.L.N. Reddy. (1994). In vivo recovery of protein metabolism in Gill and brain of fresh water fish *Anabas scandens* after exposure to lead mixture. *J. Environ. Biol.* 15 (1), 75 – 82.

Chattopadhyaya, S.N. (1984). A short term study on the pollution status of river Ganga in Kanpur region, *Ind. J. Env. Health*, 26(3), 244-257.

Chaudhari, T.R., Jadhav, M. L., Lomate, V.S. and Nandan, S.N. (1989). Changes in biochemical components of frsh water bivalve mollusk, *Corbicula striatella* (Deshaytes) on exposure to zolone. *Proc. Env. Risk. Assess.*, 267-272.

Cheung, Y.H. and Wong, M.H. (1992). Trace metal content of pacific oyster (*Crassostrea gigas*) purchased from marketin Hongkong. *Environ. Manage.*, 16(6), 753-761.

Chukwa, L.O. and Ogunmoclede, O.A. (2005). Toxicological response and sensitivity of eustuarine macroinvestebrates exposed to industrial effluents. *J. Environ. Biol.* 26 (2 suppl.), 323 – 327.

CPCB (1995). Status report of ground water quality in problem areas, Central Pollution Board, Delhi.

CSE (1982) Survey of Indian Environment Center for Science and Environment, New Delhi.

Dalela, R. C., Bhatnagar, M.C., Tyagi A.K. and Verma S.R. (1979). Histological damage of gills in Channa gachua after acute and subacute exposure to endosulfan and rogor. *Mikroskopie (Wien)* 35, 301-307.

Datar, M. and Vashishtha, R. (1992). Physicochemical aspects of pollution. *IJEP*. 12(8) : 577-580.

David, M., Mshigeri S.B. and Prashanth. M.S. (2003). Nickel induced changes on some aspects of protein metabolism in the tissue of *Pila globosa*. *J. Environ. Biol.*, 24 (1), 69 – 75.

De Pledge, M.H. (1985). Disruption of circulatory and respiratory activity in shore crabs (*Carcinus maenas*) exposed to heavy metal pollution. *Comp. Biochem. Physiol. Comp. Pharmacol. Toxicol.*, 78 (2), 445 – 460.

Desai, H.S., Nanda, B. and Panigrahi, J.. (2002). Toxicological effect of some biochemical parameters of fresh water fish, *Channa punctatus* (Bloch) under the stress of nickel. *J. Environ. Biol.*, 23 (3), 275-277.

Dhanapakiam P., Ramasamy, V.K. and Mini Joseph, J. (2006). Changes in the level of transaminases in Indian major carp, *Labeo rohita* exposed to sublethal concentration of tannery and distillery effluents. *J. Environ. Biol.*, 27(3), 567 – 570.

Dhar, M.L. (1989). Trace elements in water of river Tawi, Jammu. *IJEP*, 9(6), 473-480.

- Diamantion, T.C., Almedia, E., Soares, A.M.V.M. and Guilhermino, L. (2001). Lactate dehydrogenase activity as an effect criterion in toxicity tests with *Daphnia Magana straus*, *chemosphere*, 45, 533 – 560.
- Diwan, A.D. and Nagabushanam, R. (1972). Effect of toxic substances on oxygen consumption or the freshwater crab, *Barytelphusa cunicwaris*. *Mar. Uni. J. Sci.* 11 (4), 127 – 129.
- DuBoise K P, and Potter V R. (1943) *J. Biol. Chem.* 150: 185-95.
- Eisler, R. (1969). Acute toxicities of insecticides to marine decapod crustaceans. *Crustaceana*, 16 (3), 302 – 310.
- Eisler, R. (1970a). Factors affecting pesticide induced toxicity in an estuarine fish. *Tech. Paper 45, U.S Bull. Of sport fisheries and wild life, Washington.*
- Elumalai, M., Antunes, C. and Cuilhermino, L. (2002). Effect of single metals and their mixtures on selected enzymes of *Caridnus maenas* *J. Water, Air and Soil pollution*, 141, 273 – 280.
- Eye, J.D. and Lawrence, L. (1971). Treatment of wastes forms a sole leather tannery. *J. Wat. Pollut. Con. Fed.* 43, 2291 – 2303.
- Fiske, C.H. and Subbarao, Y.P. (1925). The colorimetric determination of phosphorous. *J. Biol. Chem.* 66(2), 375-400.
- Franchini, A. and Ottaviani, E.C. (2000). Repair of molluscan tissue injury: role of PDGF and TGF-beta1. *Tissue cell.* 32(4), 312-321.

- Franke, C., Studinger, G., Berger, G., Bohling, S., Bruckman, U., Cohors Freesenborg, D., Johncke, U. (1994). The assessment of bioaccumulation. *Chemosphere*, 29, 1501-1514.
- Fromn, P.O. (1980). A review of some physiological and toxicological responses of freshwater fish to acid stress. *Env. Biol. Fish.*, 5 : 79-83.
- Gill and Pant (1988). Carbaryl and dimethoate induced alterations in blood and tissue cholesterol of a cyprinid *Barbus conchonius* (Ham.), *Proc. Natl. Acad. Sci.*, India, Sect.B(Bio.Sci), 57(4), 377-380.
- Gill, S., Tejendra, S., Pande J. and Tewari, H. (1990). Enzyme Modulation by sublethal concentrations of aldicarb, phosphomidon and endosulfan in fish tissues. *Pestic. Biochem. Physiol.*, 38, 231 – 244.
- Girimji, Pushpa (1993). Toxic metals in infant's food. *The Tribune*, 5.
- Goldberg, A.L. and Chung, T.W. (1978). Alternative techniques for laboratory animals, "FRAME", 1 – 32.
- Graaf, Raamsdonk, Asselt, Diegenbach. (1991). Histochemical profiles of motoneurons innervating muscle fibers with different activity patterns in the zebra fish, *Brachydanio rerio*, *Histochemical Journal*, 23, 273-280.
- Gupta, V. and Rao, G. (1974). Histological studies on the chroidpleves of the goat embryos. III. Histochemical distribution of acid and alkaline phosphatases. *Acta. Histochem.*, 49, 60 – 63.

Guruprasada Raw, M. and N.V. Nandakumar. (1981). Analysis of irrigation reservoir contaminated by tannery effluents. Indian J. Environ. Hith., 23 (3), 239 - 241.

Hawk et. al., (1965), Hawks Practical physiological chemistry, 14th Edition Ed. B. L. Oser. McGraw- Hill Book Company. Inc. New York. Toronto, London.

Heath, A.G. (1987). Water pollution and fish physiology CRC press, Boca Raton, Florida.

Indira, D. and Ramalingam, K. (1996). Injury stress on tissue sugar protein metabolites concentration and phosphatase activity in *Achatina fulcia*. Nat. Acad. Sci. Letters., 19(1), 27-32.

Jacomini, Avelar, Martinez, Bonato (2006). Bioaccumulation of Atrazine in Freshwater Bivalves, *Anodontites trapesialis* (Lamarck, 1819) and *Corbicula fluminea* (Muller, 1774), Arch. Environ. Contam. Toxicol. 51, 387–391.

Jadhav Sunita (1993). Impact of pollutants on some physiological aspects of the fresh waetr bivalve, *orbicula striatela*. Ph.D. Thesis, Marathwada University, Aurangabad (M.S., India).

Jadhav, M. L. and Lomate, V.S. (1982). Biochemical composition of fresh water bivalve, *Lamelidens marginalis*, Riv.Di. Idrobiol. 21, 1-3.

Jha, B.S. and Jha, M.M. (1995). Biochemical effects of nickel chloride on liver and gonads of fresh water climbing perch, *Anabas testudineus* (Bloch.), Proc. Natl. Acad. Sci. India, 65(B), 36-46.

John (2007). Alteration of certain blood parameters of freshwater teleost *Mystus vittatus* after chronic exposure to meta systox and sevin. *Fish physiol. Biochem.* 33, 15 – 20.

Johnson, R.D. and Bargman, H.L. (1983). Use of histopathology in aquatic toxicology. A Critic in : contaminat effects on fisheries, 19 – 36.

Jyothi B. and Narayan G. (1997). Effect of phorate on certain protein profiles of serum in freshwater fish, *Clarias batrachus* (Linn.). *J. Environ. Biol.* 18 (2), 137 – 140.

Jyoti B. and Narayan G.(2001). Effect of pesticide carbaryl and phorate on serum cholesterol level in fish, *Clarias batrachus* (Linn.), *J. Environ. Biol.*, 22(3), 233-235.

Kaur,A. and Kaur,K. (2006). Impact of nickel-crome electroplating effluent on the protein and cholesterol content of blood pasma of *Channa punctatus* (Bl.) during different phases of reproductive cycle, *J. Environ. Biol.*, 27(2), 241-245.

Khangarot, B.S. and Tripathi, D.M. (1990). Gill damage to catfish, *Saccobranchus fossilis* following exposure to chromium. *Water air soil pollut.*, 53, 379-389.

Khillare Y.K. and Davane P.M. (1990). Effect of pesticide (Agrofen and Thiodon) on glycogen content of fresh water fish, *Puntius stigma*, Trends in Ecotoxicology, AEB, 43-45.

Khwaja, A.R., Rashmi, S., Tandon, S.N., (2001). Monitoring of Ganga water and sediments vis-à-vis tannery pollution at Kanpur (India): a case study. *Environ. Monit. Assess.* 68, 19 – 35.

Knox, W.E. and Greengard, O. (1965). The regulation of some enzymes of nitrogen metabolism. In: an introduction to enzyme physiology. Adv. Enzy. Regul., 3, 247 – 313.

Kolmer et al, (1951) Method for the estimation of cholesterol.

Kondal, J.K., Saxena, P.K. and Soni, G.L. (1990). Response of serum protein and cholesterol in fresh water fish, *Heteropneustes fossilis* exposed to vegetable oil factory effluent. Environ. Eco., 8(3), 965-968.

Koppar, B.J., Kulkarni, R.S. and Venkatachari S.A.T. (1993). Application of static Bioassay procedure in determining the comparative relative toxicity of pesticide methyl parathion on two freshwater mussels. J. Environ. Biol., 14 (3), 183 – 193.

Kothandaraman, V., P. Murahari Raw and C.A. Sastry. (1972). Characteristics of water from three typical tanneries in Madras. In : treatment and disposal of tannery and slaughter house waste. CLRI. Madras, 1 – 17.

Kulkarni A. B. and Utkar V. N. (1983). Effect of molluscicide on the biochemical composition of the tissues in the fresh water prosobranch snail, *Viviparous bengalensis* (Lamarca). J. Environmental biology, 4(4), 215-220.

Larsson Ake (1976). Some haematological and biochemical effects of cadmium on fish, society for experimental biology; Seminar Series, 35-45,

Larsson, C. and Haux, P. (1982). Altered carbohydrate metabolism in fish exposed to sublethal levels of cadmium. J. Env. Biol. 3(2), 71-78.

Lomate, V.S. and Wayeka, B.B. (1998). Effect of carbaryl and cypermethrin on gill histopathology of fresh water bivalve, *Parreysia cylindrica*. *Him. J. Environ. Zool.* 12(2), 149-156.

Lowestein, J.M. (1972). Ammonia production in muscle and other tissues: purine nucleotide cycle. *Physiol. Rev.* 52 , 382 – 414.

Lowry, O.H.R., N.J. Rosenbrough, A.L. Farr and R.J. Randall (1951). Protein measurement with folin – phenol reagent. *J. Biol. Chem.*, 193, 265 – 275.

Manivasakam (1984). Physicochemical examination of water, sewage and industrial effluents. Pragati Prakashan, Meerut.

Mariappan, V., Balamurugan, T. and Rajan, M.R. (2001). A survey on quality of three industrial effluents. *J. Environ. Ecol.*, 491 – 493.

Martin, D.W., Mayer, P.A. and Rodwell, V.W. (1983). In : Harper's review of biological chemistry. Large medical publications, Maruzen Asia private limited.

Maruthanayagam, C., Krishnamoorthy P. and Subramaniah, P. (1996). Effect of tannery effluent on the biochemical constituents of the freshwater prawn, *Macrobrachium lamarrei lammarrei* (H. Milne Edwards). *J. Environ. Biol.*, 17 (4), 285 – 294.

Mathur, S. and Durve, V.S. (1996). Acute toxicity of mercury, cadmium and zinc to the pulmonate mollusk *Lymnaea acuminata*. *J. Ecobiol.*, 8 (3), 229 – 234.

Mayekar V. G. (2007). Effect of nickel on the neuroendocrine physiology of the female crab , *Scylla serrata* (Forskål), P.hD. thesis of Mumbai university,

Mazeaud, M.M., Mazeaud, F. and Donaldson, E.M. (1977). Primary and secondary effects of stress in fish. Some new data with general review. Trans. Amer. Fish. Soc. 106, 201-212.

Mendikute, Elizondo, Venier, Cajaraville (2005). Characterization of mussel gill cells in vivo and in vitro. Cell Tissue Res., 321: 131–140.

Meyers, T.R. and Hendricks, J.D. (1985). Histopathology. In : Fundamentals of aquatic toxicology (Eds: G.M. Rand and S.R. Petrocelli). Hemisphere publishing corp., New York, 283-299.

Mishra, K.D. and Mercy Sulochana (1995). Acute toxicity estimation of copper to fish by two bioassay methods. J. Environ. & Pollut. 2 (4), 189-194.

Mohamed, Jamal M., Dawood Sharief S., Dawood Nausheen and Ilango, B.K. (2004). Characterisation of tannery effluent. J. Indust. Pollut. Cont., 20 (1), 1 – 6.

Mohan Rai and Hameed Shahul (1991). Effects of copper, Cadmium and mercury on metabolism of the freshwater mussel *Lamellidens marginalis*. (Lamark). J. Environ. Biol., 12 (2), 131 – 135.

Moore Michael (1991). Lysosomal changes in the response of molluscan hepatopancreatic cells to extracellular signals. Histochemical Journal, 23, 495 – 500.

Muley D.V. and Patil, I.M. (2006). A study of water quality and fish diversity of pauna river, Maharashtra. J. Aqua. Biol. 21(1), 68-75.

Murti, R., Omkar and Shukla, G.S. (1984). Mercuric chloride intoxication in freshwater prawn. II. Effect on phosphatase activity. Ecotoxicol. Environ. Saf. 8, 581 – 589.

Mwinyikione, Meharg, Dawson, Strachan, Killham (2005). An Ecotoxicological Approach to Assessing the Impact of Tanning Industry Effluent on River Health, Archives of Environmental Contamination and Toxicology.

Nagabhushanam, R., Kodarkar, M. S. and Sarojini, R. (1983). Text book of animal physiology, Oxford and IBH publishing co. New Delhi.

Nagarajan, P. and Ramchandramoorthy, T.R. (2002). Oil and grease removal from steel industry wastewater by chemical treatment. J. Ecotoxicol. Environ. Monit. 12 (B), 181-184.

Nagarajan, P., and Ramachandramoorthy, T.R., (2002). Oil and grease removal from the steel industry wastewater by chemical treatment. J. Ecotoxicol. Environ. Monit. 12(B), 181-184.

Naidu, A.S. (2000). Indian leather industry in 21st century: challenges and opportunities. Yojana 3, 13.

Nambisan, K.P.N., Lakshmanan, P.T. and Mohammed (1977). On the uptake of copper (II) by Meretrix casta (Cheminitz) and indicator species of metal pollution, Curr.Sci., 46(13), 437-440.

Nanda, P., Panda, B. N. and Behera, M.K. (2000). Nickel induced alterations in protein level of some tissues of Heteropneustes fossilis, J. Environ. Biol., 21 (2), 117-119.

Narayan, R.(1993). Glycogen depletion and lactic acid accumulation in the tissues of *Indoplanorbis exustus* during anoxic submersions, Indian Journal of Comparative physiology, 11(1), 17-20.

Neumann D, Kappes H (2003) On the growth of bivalve gills initiated from a lobule producing budding zone. Biol Bull 205:73–82.

Odegah, P.C. and Osanyipejw (1995). Genotoxic effects of tow industrial effluents and ethyl methane sulfonate in *Calarias lazera*. Fd. Chem. Toxic., 33 (6), 501 – 5005.

Omkar and Shukla, G.S. (1985). Nature of dichlorvos intoxication in a freshwater prawn, *Macrobrachium Lamarrei* (H. Milne Edwards). Environ. Res., 37, 349 – 354.

Palanichamy, S. Baskaran, P. and Balsubramanian, M.P. (1986). Sublethal effects of selected pesticides on protein, carbohydrate and lipid content of different tissues of *Oreochromis moassambicus*. Proc. Sys. Pest. Resid. Env. Pollu. 97-102.

Pandey, G.N. and Camey, G.C., (1998). Environmental engineering, Tata McGraw Hill publishing company limited, New Dehli.

Parlak, H., Katalay, S. , Buyukisik B. (1999). Accumulation and Loss of chromium by Mussels (*M. galloprovincialis*), Bull. Environ. Contam. Toxicol. 62:286-292.

Paul Bhaskar, J. (1992). Devastation of Leather tanneries in Tamilnadu. Development in practice. An Oxford Journal. 2 (2), 274.

Pawar B.A. and Mane U.H. (2006). Hydrography of Sadatpur lake, near Pravaranagar, Ahmednagar district, Maharashtra. J. Aqua. Biol., 21(1), 101-104.

Piska,R.S., Waghray, Saeala Devi and Indira (1992). The effect of sublethal concentration of synthetic pyrethroid, cypermethrin to the common carp, *Cyprinus carpio* (Linn.) fry, J.Environ.Biol.,13,89-94.

Prabhakaran, Binuramesh, Steinhagen Dieter, Michael Dinakaran (2007). Immune response in the tilapia, *Oreochromis mossambicus* on exposure to tannery effluent. J. Ecotoxicol. Environ. Safet., 68, 372 – 378.

Premakumari R. and Shantha Vijayaraghavan (1992). Metabolic responses of lactate and lactate dehydrogenase to the starvation and reffding in liver tissues of *Anabas testudineus* (Bloch), J. Environ. Biol., 13(1), 83-87.

Raj, E.M., Sankaran, D.P., Srrenath, S.K., Kumaran, S. and Mohan, M. (1996). Studies on the treated effluent characteristics of a few tanneries at Chrompet, Madras, Ind. J. Environ. Prot. 6: 252-254.

Rajender, K., P. Subbar Rao and P. Dayakar. (1986). Effects of insecticide on the biomolecular of haemolymph of cockroach, *Periplaneta Americana*, Environment and ecotoxicology, (Eds: R.C. Dalela et al). The Academic of Environmental Biology, 345 – 351.

Ram, R.N. and Sathyanesan, A.G. (1984). Mercuric chloride induced changes in the protein, lipid and cholesterol levels of the liver and ovary of fish, *Channa punctatus*. Environ. Ecol.2, 113-117.

Ramasubramanian, V., Mariappan, V. and Jeyaprakash, R. (2004). Bioremedial properties of treated tannery effluent by using microflora. *J. Indus. Pollut. Cont.* 20 (2), 221 – 228.

Ramesh, M., Manavalaramanujam, R. and Sivkumari, K. (1993). Studies on the effect of nickel electroplating factory effluent on phosphatase activity of freshwater teleost, *Oreochromis mossambicus* (Peters). *Bull. Pure. Appl. Sci.*, 12A 41 – 47.

Reddy Doraswamy, Bhaskar M. and Govindappa S. (1988). Influence of starvation and refeeding on hepatic tissue glycogen metabolism of fresh water fish, *Sarotherodon mossambicus* (Trevawas). *J. Environ. Biol.*, 9(1), 15-20.

Reitmann and Frankel, Am. J. Clin. Pathol., (1957). colorimetric method for the determination of serum trans aminase activity. *Am. J. Clin. Pathol.*, 28, 56-63.

Renfro, J. L., B. Schmidt, D. Miller, D. Benos and J. Allen, (1974). Methyl mercury and inorganic mercury; uptake, distribution, and effect on osmoregulatory mechanisms in fishes. 101-122.

Roberts, R.J. (1978). Pathological and systematic pathology of teleost in: *Fish pathology* (Edl. R. J. O.), Silliere Tindall, London, U.K., 55-59.

Rodriguez, Arellano, Canals, Blasco, Saraquete (2005). Accumulation of copper and histopathological alterations in the oyster, *Crassostrea angulata*, ciencias marinas, 31(3), 455-466.

Roger T.D. (1980). Mechanism and regulation of protein degradation in animal cells. In: Clemens HJ, Ashwell M (eds) *Biochemistry of cellular regulation*, vol II, CRS Press, Florida. p 101-215 .

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- Ruparelia, S.G., Verma, Y., Meta, N.S. and Rawal, U.M. (1992). Cadmium accumulation and biochemical alterations in the tissues of freshwater fish Sarotherodon mossambicus. *J. Ecotoxicol. Environ. Monit.*, 2, 129 -136.
- Santra S.C. (2004). Reference book of Environmental science
- Sastry, C.A. (1986). Characteristics and treatment of wastewater from tanneries. *Indian J. Environ. Protec.*, 6(3), 159- 168.
- Sastry, K.V. and Suneeta, K.M. (1983). Chronic effects of chromium in Channa punctatus an interim report 4th All India Seminar Ichtyol., 24.
- Satyaparameshwar, Reddy Ravinder and Vijaya Kumar N.(2006). Effect of chromium on protein metabolism of freshwater mussel, *Lamellidens marginalis*, *J. Environ Biol.*, 27(2), 401-403.
- Saxena Veena and Saxena D.N. (1996). Effect of Nuvan and Dimecron on the ovarian biochemical constituents in a fresh water murrel *Channa orientalis* (schneider), *J. environment and pollution*, 3(3&4), 157-164.
- Scott, D.M. and Major, C.W. (1972). The effect of copper on survival of respiration and heart beat in the common blue mussel, *Mytilus edulis*, *Biol. Bull.*, 143, 679-688.
- Seifter, S., Dayton, S., Novic, B. and Muntyler, I. (1950). Estimation of glycogen with anthrone reagents, *Arch. Biochem.* 25, 191-200
- Selvaraj, S., Baskaran, R. and Victor Rajamanickam, G. (2004). A study on the effects of tannery pollutants in sembattu area Tiruchirapalli, Tamilnadu. *J. Indust. Pollut. Cont.*, 20 (1), 145 – 148.

Shaffi, S.A. (1993). Comparision of sublethal effect of mercury and lead on visceral dehydrogenase system in three inland teleost. *Physiol. Res.* 42, 7-15.

Sharma, B. and Gopal, K. (1995). Changes in lactic acid contents and activity of lactate dehydrogenase in *C. batrachus* exposed to carbaryl. *Toxicol. Environ. Chem.* 47, 89-95.

Sharma, D.C., Srivastava, P.C., Johri, B.N. and Chandra, P. (1996). Environmental impact of tannery effluents on heavy metal phytotoxicity and health hazards, *J. Indust. Pollut. Cont.* 12 (2), 137 – 142.

Shastry, K., Sachdeva, V. and Rathee, P. (1997). Chronic toxic effects of cadmium, copper and their combination on some enzymological and biochemical parameters in *Channa punctatus*. *J. Environ. Biol.*, 18, 291-303.

Singh Arun K. (1997). Abundance of macrozoobenthic organisms in relation to physicochemical characteristics of river Ganga at Patna (Bihar), India, *J. Environ. Biol.* 18(2), 103-110.

Singh Chandrajit, Parawana,H. K., Marwah, S.S. Garg Rakesh and Singh Gajendra (1996). Toxicity of electroplating effluents. *J. Industrial Pollution Control*, 12(1), 15-19.

Singh, M. and Gupta, K.C. (2004). Study on physico chemical characteristics of Yamuna river water. *IJEP*, 24(3), 182-186.

Singhal, K.C. (1994). Biochemical and enzymatic alterations due to chronic lead exposure in the fresh water catfish, *Heteropneutes fossilis*, *J. Environ. Biol.* 15, (3),185-191.

Skidmore, J. F. and Tovell, P.W.A. (1972). Toxic effects of sulfate on the gills of rainbow trout. *Water Res.* 6, 217-230.

Somnath (1991). Effect of acute sublethal concentration of tannic acid on the protein, carbohydrate and lipid levels in the tissues of the fish, *Labeo rohita*, J. Environ. Biol., 12(2), 107-112.

Somarej, R., Thanalashmi, S. and Baskaran, P. (1995). Influence of heavy metals on biochemical responses of freshwater air breathing fish, *Channa punctatus* (Bloch.), J. Ecotoxicol. Environ. Monit., 5(1), 19-27.

Spry, J. D. and Wood, C. M. (1984). Acid base plasma ion and blood gas changes in rainbow trout during the short-term zinc exposure, J. Comp. Physiol.B. 154.149-158.

Sternlieb and Goldfischer. (1976). Heavy metals and lysosomes. In: *lysosomes in biology and pathology*, Vol. 5 (Eds: J.T. Dinge and R.T. Dean). American Elsevier Publishing company, New York,

Subramanian, M.A. and Varadaraj, G. (1988). The impact of tannery effluent on the biochemical constituents in the haemolymph of freshwater prawn, *Macrobrachium idella* (Heller). J. Environ. Biol., 14 (3), 225 – 259.

Suhasini, D., Rajendran, Indiara and Swami. (1979). Impact of aspirate and alanine amino transferase activity levels in the liver of frog, *Rana hexadactyl*. Curr. Sci., 4, 228 – 230.

Tare, V., Gupta, S., Bose, P. (2003) Case studies on biological treatment of tannery effluents in India. J. Air wastes Manage. Assoc. 53, 976 – 982.

Tarzwell, C.M. (1971), Bioassays to determine allowable waste concentrations in the aquatic environment. I. Measurement of pollutants effects on living organisms. Proc. Royal Soc. Landon, 177.

Tewari, H., Gill, T.S. and Pant J. (1987). Impact of chronic lead poisoning on haematological and biochemical profiles of fish Barbus conchonius, Bull. Environ. Contam. Toxicol., 38(5), 748-752.

Thaker, A.A. and Haritos, A.A. (1989). Cadmium bioaccumulation and effects on soluble peptides, proteins and enzymes in the hepatopancreases of the shrimp Callianassa tyrrheea. Comp. Biochem. Physiol., 94C, 63 – 70.

Thingaran, V.G. (1974). Fisheries in India in the context of aquatic pollution. Int. J. Ecol. Environ.Sci. 1, 15-18.

Thorat, S.R. and Wagh, S.B. (2000). Physicochemical analysis of tannery waste. J. Industrial Pollution Control, 16(1), 107-109.

Tilak, K.S., Vereraiah, K., Rao, D.K. (2005). The effect of chloropyritos, an organophosphorus in acetylcholinesterase activity in fresh waer fishes, J. Environ. Biol., 26, 73-78.

Timbrell, A.J. (1991). Toxic response to foreign compounds. Principals of biochemical toxicology, Taylor and Francis, Londown.

Tripathi, G., Verma, P. (2004). Endosulfon mediated biochemical changes in fresh water fish, Clarias batrachus, Biomed. Environ. Sci., 17,47-56.

Trivedy, R.K., Salunkhe,K.P. and Khatavkar, S.D. (1990). Chemistry and phytoplankton of river Koyana (M.S.), India. River pollution in india, Ashish publ., new Delhi, 147-156.

Venkatamana, P. and Radhakrishnaiah, K. (1987). Lethal and sublethal effects of copper on the protein metabolism of freshwater teleost, *Labeo rohita*. Trend life Sci., 2, 1 – 7.

Verma S.R., Tyagi A.R. and Dalella R.C. (1978). Physicochemical and biological characteristics of karadabad drain in U.P. Ind. J. Env. Hlth. 20(1), 1-13.

Verma, S.R., Rani, S. and Dalela, R.C. (1980). Effect of phenol and dinitrophenol on acid and alkaline phosphatase in tissues of a fish, *Notopterus notopterus*. Arch. Environ. Contam. Toxicol. 9, 451-459.

Vijayavel, K., Anbuselvam, C., Balasubramaniam, M.P., Samuel Deepak, Gopalakrishnar, S. (2006). Assessment of biochemical components and enzyme activities in the estuarine crab *Scylla tranquebarica* from naphthalene contaminated habitants. J. Ecotoxicol. 15, 169 -146.

Walsh, A. R. and O'Halloran, J. (1997). The toxicity of leather tannery effluent to a population of the blue mussel *Mytilus edulis* (L.), Ecotoxicology, 6, 137-152.

Walton, M. J. and Cowey,C.B. (1979). Gluconeogenesis by isolated hepatocyte from rainbow trout. Comp. Biochem. Physiol. 62B, 75-79.

Walton, M. J. and Cowey,C.B. (1982). Aspect of intermediary metabolism in salmonid fish. Comp. Biochem. Physiol. 73B, 59-79.

Wang, W.-X., Fisher, N. S., (1999b). Assimilation efficiencies of chemical contaminants in aquatic invertebrates: a synthesis. Environ. Toxicol. Chem. 18, 2034 – 2045.

Webb, F.W., and Bert, J.R. (1972). The effect of sublethal concentration of whole bleached kraft mill effluent on the growth and food conversion efficiency of under yearling Sockeye salmon. J. Fish, Res. Bd. Can., 29, 1555 – 1563.

Yadav Archana, Gopesh Anita, Pandey Ravi, Rai Devendra and Sharma Bechan (2007). Fertilizer industry effluent induced biochemical changes in freshwater teleost, Channa striatus (Bloch.). Bull. Environ. Contam. Toxicol.