

BIBLIOGRAPHY

7. Bibliography

- AAHRI, ACIAR, IoA and NACA.** 1997. Epizootic ulcerative syndrome of fishes in Pakistan. A report of the findings of an ACIAR/DFID funded mission to Pakistan. 9-19 March 1997.
- Abbott, S.L., Cheung, W.K.W., Bystrom, S.K., Malekzadeh, T. and Janda, J.M.** 1992. Identification of *Aeromonas* strains to the genospecies level in the clinical laboratory. *J. Clin. Microbiol.*, **30**: 1262-1266.
- Abdul Hameed, D. M.** 1996. Status report on Epizootic ulcerative syndrome fishers and white spot disease in shrimp in Karnataka state. Presented at National workshop on fish and prawn disease epizootics and quarantine adoption in India. Central Inland Capture Fishery Research Institute, Barrackpore, India. October 9, 1996. pp. 64-67.
- Acharjee, M. L. and Barat, S.** 2011. Spatio- temporal Dynamics of physicochemical factors of river Relli in Darjeeling Himalaya, West Bengal, India. *NBU J. Anim. Sc.*, **5**: 24-33.
- ADB/NACA.** 1991. Fish Health Management in Asia- Pacific [Report]. Series No.1 ADB Agriculture Department Network of Aquaculture Centres in Asia- Pacific, Bangkok., Thailand.
- ADB/NACA.** 1995. Shrimp and carp sustainability. Regional study and workshop on aquaculture sustainability and the environment. Regional shrimp and carp summary data. P.491.
- Afzali, S.F., Hassan, M.D., Abdul-Rahim, A.M., Sharifpour, I. and Sabri, J.** 2013. Isolation and identification of *Aphanomyces* species from natural water bodies and fish farms in Selangor, Malaysia. *Malays. Appl. Biol.*, **42**: 21-31.
- AFS (American Fisheries Society)** 1975. "Suggested procedures for the detection and identification of certain infectious diseases, U.S. Fish." Washington D.C. .Wild Serv., Fish Health Section.
- Ahmed, G.U. and Hoque, A.** 1998. Mycotic involvement in epizootic ulcerative syndrome of fresh water fishes of Bangladesh: a histopathological study. *Proc. Fifth Asian Fisheries Forum, Chiang Mai, Thailand.*

- Ahmed, M. and Rab, M.A.** 1995. Factors effecting outbreaks of epizootic ulcerative syndrome in farmed fish in Bangladesh. *J. Fish Dis.*, **18**: 263-271.
- Ahne, W., Joergensen, P.E.V, Olesen, N.J. and Wattanavijarn, W.** 1988. Serological examination of a rhabdovirus isolated from snakehead (*Ophicephalus striatus*) in Thailand with ulcerative syndrome. *J. Appl. Ichthyol.*, **4**: 194-196.
- Ahne, W., Popp, W. and Hoffman, R.** 1982. *Pseudomonas fluorescens* as a pathogen for Tench (*Tinca tinca*). *Bull. Eur. Ass. Fish Pathol.*, **2**: 56-57.
- Akin, B.S., Atici, T. and Katircioglu, H.** 2008. Physicochemical, toxicological and ecological analysis of Gokcekaya Dam Lake. *African J. Biotech.*, **7**:444-449.
- Ali, A. and Tamuli, K.** 1991. Isolation of an etiological agent of epizootic ulcerative syndrome. *Fish. Chimes*, **11**: 43-46.
- Anderson, J.I.W. and Conroy, D.A.** 1970. Vibrio disease in marine fishes. *In: A symposium of the American Fisheries Society on Disease of Fishes and Shellfishes* (S.F. Sniesøko, ed.). *Trans. Am. Fish Soc. Spec. Publ. No.5*, Washington, D.C. pp. 266-272.
- Andre, P.G., Conroy, D.A., McGregor, D., Roberts, R.J. and Young, H.** 1970. Acute Haemorrhagic septicaemia in captive European eel (*Anguilla vulgaris*): A clinical pathological study. *Vet. Rec.*, **90**: 726-729.
- APHA.** 2005. "Standard Methods for Examination of Water and Wastewater" (21st ed.). Washington, D.C., USA. American Public Health Association.
- Aremu, M.O., Gav, B.L., Opaluwa, O.D., Atolaiye, B.O., Madu, P.C. and Sangari, D.U.** 2011. Assessment of physicochemical contaminants in waters and fishes from selected Rivers in Nasarawa State, Nigeria. *Res. J. Chem. Sci.*, **1**: 6 -17.
- Aryal, S. and Lacoul, P.** 1996. Water quality and diversity of diatoms in Punyamati River, Nepal. *Ecoprint*, **3**: 45-49.

- Bais, V.S., Agrawal, N.C. and Tazeen, A.** 1995. Comparative study on seasonal changes in phytoplankton community in the Sagar Lake and Military Engineering Lake (M.P.). *J. Freshwater Biol.*, **7**: 19-25.
- Baldock, F.C., Blazer, V., Callinan, R.B., Hatai, K., Karunasagar, I., Mohan, C.V. and Bondad-Reantaso, M.G.** 2005. Outcomes of a short expert consultation on epizootic ulcerative syndrome (EUS). In: "Diseases in Asian Aquaculture V ". (P.J. Walker, R.G. Lester and B.-R. M.G., Eds.). pp. 555-585. Philippines.
- Barat, S. and Jha, P.** 2002. Changes in the water quality and total coliform bacterial load in a stretch of river Mahananda at Siliguri city, West Bengal. *Asian J. Microbiol. Biotech. Env. Sc.*, **4**: 571-575.
- Barret, P.H.** 1957. Potassium concentration in fertilized trout lakes. *Limnol. Oceanogr.*, **26**: 55-59.
- Barrow, G.I. and Feltham, R.K.A.** 1993. "Cowan and Steel's Manual for the identification of medical bacteria" (3rd ed.). Cambridge University Press. Cambridge, UK.
- Bartholomew, J.W.** 1962. Variables influencing results and the precise definition of the steps in Gram staining as a means of standardizing the results obtained. *Stain Techno.*, **137**:139-155.
- Barua, G.** 1990. Common fish diseases in aquaculture [sic] in Bangladesh and their control. In: "Trainers training on Aquaculture Technologies to Fisheries extension officers, 21-26 May, 1990." (M.V. Gupta, Ed.). *Fish. Res. Inst., Mymensingh.* pp. 152-165.
- Barua, G.** 1994. The status of epizootic ulcerative syndrome of fish of Bangladesh. *Proc. of the ODA Regional Seminar on Epizootic Ulcerative Syndrome. Aquatic Animal Health Research Institute, Bangkok, Thailand, 25-27 January 1994.* pp. 13-20.
- Baxa, D.V., Kenji, K.H. and Kusuda, R.** 1985. *Edwardsiella tarda* and *Streptococcus* isolated from cultured red sea bream. *Rep. USA. Mar. Biol. Inst. Kochi Univ.*, **7**:1-8.

- Baxa, D.V., Groff, J.M., Wishkovsky, A. and Hedrick, R.P.** 1990. Susceptibility of non ictularid fishes to experimental infection with *Edwardsiella ictaluri*. *Dis. Aquat. Org.*, **8**: 113-117.
- Bellet, R.** 1958. Du Syndrome antero-hepatorenal chez la truite arc-en-ciel de pisciculture. *Bull. Franc. Piscicult.*, **189**: 113-124.
- Bellet, R.** 1965. Viral hemorrhagic septicemia (VHS) of the rainbow trout bred in France. *Ann. N.Y. Acad. Sci.*, **126**: 461-467.
- Bhatt, R. P. and Khanal, S. N.** 2011. Impoundment after Damming the Rivers Change in Flow Regime and Effect in Water Quality of Chilime Hydropower Project in Rasuwa District Nepal. *Adv. Biores.*, **2**: 33-39.
- Bhowmick, B.N. and Singh, A.S.** 1985. Effect of sewage on physico - chemical characteristics and bacterial population in river Ganga at Patna. *Ind. J. Ecol.*, **12**: 141-146.
- Bhowmick, U., Pandit, P.K. and Chatterjee, J.G.** 1991. Impact of epizootic ulcerative syndrome on the fish yield, consumption and trade in West Bengal. *J. Inland Fish. Soc. India*, **23**: 45-51.
- Bhowmick, M.L.** 1988. Limnology and productivity of some Beels and Baors of West Bengal with reference to recent development. *Environ. Ecol.*, **6**: 42- 48.
- Blazer, V.S., Lilley, J.H., Schill, W.B., Kiryu, Y., Densmore, C.L., Panyawachira, V. and Chinabut, S.** 2002. *Aphanomyces invadans* in Atlantic menhaden along the East Coast of the United States. *J. Aquat. Anim. Health.*, **14**: 1–10.
- Blazer, V.S., Vogelbein, W.K., Densmore, C.L., May, E.B., Lilley, J.H. and Zwerner, D.E.** 1999. *Aphanomyces* as a cause of ulcerative skin lesions of menhaden from Chesapeake Bay tributaries. *J. Aquat. Anim. Health.*, **11**:340–349.
- Bondad-Reantaso, M.G., Catap, E.S., Paclibare, J.O., Lumanian-Mayo, S.C. and Callinan, R.B.** 1994. Environmental factors associated with EUS occurrence in fresh water and estuarine areas of Luzon. *Proc.ODA Reg. Semi. EUS, 25-27 January 1994. AAHRI, Bangkok.* pp. 129-136.

- Bondad-Reantaso, M.G., Subasinghe, R. and Mudenda, B.** 2012. Transboundary and emerging freshwater finfish diseases in farmed, ornamental and wild fish. Reviews in Aquaculture (status: 2 September 2012 – second round of referee review).
- Bondad-Reantaso, M.G., Lumanlan, S.C., Natividad, J.M. and Phillips, M.J.** 1992. Environmental monitoring of the epizootic ulcerative syndrome (EUS) in fish from Munoz, Nueva Ecija in the Philippines. *In: "Diseases in Asian aquaculture I."* (M. Shariff, R.P. Subasinghe and J.R. Arthur, Eds.). Manila. Fish Health Section, Asian Fish. Soc.. pp. 475-490.
- Bondad-Reantaso, M.G., Subasinghe, R.P., Arthur, J.R., Ogawa, K., Chinabut, S., Adlard, R., Tan, Z. and Shariff, M.** 2005. Disease and health management in Asian aquaculture. *Vet. Parasitol.*, **132**:249-272.
- Boomker, J., Henton, M.M., Naude, T.W. and Hunchzermeyer, F.W.** 1984. Furunculosis in rainbow trout (*Salmo gairdneri*) raised in sea water. *Onderstepoort J. Vet. Res.*, **51**: 91-94.
- Boonyaratpalin, S.** 1989. Bacterial pathogen involved in the epizootic ulcerative syndrome of fish in South East Asia. *J. Aquat. Anim. Health*, **1**: 272-276.
- Bose, S.K. and Gorai, A.C.** 1993. Seasonal fluctuations of plankton in relation to physico-chemical parameters of a freshwater Tank of Dhanbad, India. *J. Freshwater Biol.*, **5**: 133-140.
- Bragg, R.R., Hildegard, F.A.K., Huchzermeyer, F.W. and Monica Hanisch, A.M.** 1990. *Mycobacterium fortuitum* isolated from three species of fish in South Africa. *Onderstepoort J. Vet. Res.*, **57**: 101-102.
- Bruno, D.W.** 1986. Histopathology of bacterial kidney disease in laboratory infected rainbow trout, *Salmo gairdneri* Richardson, and Atlantic salmon, *Salmo salar* L., with reference to naturally infected fish. *J. Fish Dis.*, **9**: 523-537.
- Bullock, G.L., Conroy, D.A. and Snieszko, S.F.** 1971. Bacterial diseases of fishes. *In: "Diseases of Fishes, Book 2A"*. (S.F. Snieszko and H.R. Axelrod, Eds.). Neptune, N J, T.F.H. Publication. p. 151.

- Bullock, G.L. and McLughlin, J.J.A.** 1970. Advances in knowledge concerning bacteria pathogenic to fishes (1954-1968). *Spec. Publs. Amer. Fish. Soc.* No.5. pp.231-242.
- Cabecadas, G. and Brogueira, M.J.** 1987. Primary production and pigments in three Low alkalinity connected reservoirs receiving mine wastes. *Hydrobiol.*, **144**: 173- 182.
- Calkins, G.N.** 1989. 4th. Ann. Report of the Commissioners of Fisheries, Game and Forests, State of New York, p.175.
- Callinan, R.B., Fraser, G.C. and Virgona, J.L.** 1989. Pathology of red spot disease in sea mullet, *Mugil cephalus* L., from eastern Australia. *J Fish Dis.*, **12**: 467-479.
- Callinan, R.B., Chinabut, S., Mohan, C.V. and Lilley, J.H.** 1999. Report of EUS Extension Visits to Nepal, India and Sri Lanka, 7-20 June 1999. Australian Centre for International Agricultural Research and Department for International Development, p. 32.
- Callinan, R.B., Chinabut, S., Kanchanakhan, S., Lilley, J.H. and Phillips, M.J.** 1997. Epizootic ulcerative syndrome (EUS) of fishes in Pakistan. A report of the findings of a mission to Pakistan, 9–19 March 1997. Prepared by ACIAR, AAHRI, NACA, ODA, NAW Fisheries and Stirling University, UK.
- Callinan, R.B., Pacilibare, J.O., Bondad-Reantaso, M.G. and Gogolewski, R.P.** 1995a. *Aphanomyces* species associated with epizootic ulcerative syndrome (EUS) in the Philippines and red spot disease (RSD) in Australia: preliminary comparative studies. *Dis. Aquat. Org.*, **21**: 233–238.
- Callinan, R.B., Paclibare, J.O., Reantaso, M.B., Lumanlan- Mayo, S.C., Fraser, G.C. and Sammut, J.** 1995b. EUS outbreaks in estuarine fish in Australia and the Phillipines: associations with acid sulphate soils, rainfall and *Aphanomyces*. *In*: "Diseases of Asian Aquaculture II". (M. Shariff, J.R. Arthur and R.P. Subashinghe, Eds.). Manila. Fish Health Section, Asian Fisheries Society. pp.291-298.
- Carnanhan, A.M., Behram, S. and Joseph, S.W.** 1991. Aerokey II: A Flexible key for identifying clinical *Aeromonas* species. *J. Clin. Microbiol.*, **29**:2843-2849.

- Cartwright, G.A., Chen, D., Hanna, P.J., Gudkovs, N. and Tajima, K.** 1994. Immunodiagnosis of virulent strains of *Aeromonas hydrophila* associated with epizootic ulcerative syndrome (EUS) using a monoclonal antibody. *J. Fish Dis.*, **17**: 123-133.
- Chakraborty, R., Roy, D.P. and Singh, S.B.** 1959. A quantitative study of the plankton and physico-chemical conditions of the river Jamuna at Allahabad in 1954-55. *Indian J. Fish.*, **6**: 186-203.
- Chakraborty, A.N. and Dastidar, S.G.** 1991. Repeated isolation of chemoautotrophic nocardioform bacteria from the epizootic syndrome. *Ind. J. Exp. Biol.*, **29**: 623-627.
- Chattopadhyay, U.K., Pal, D., Das, M.S., Das, S. and Pal, R.N.** 1990. Microbiological investigations into epizootic ulcerative syndrome in fishes. *Proc.Nat.Workshop Ulc. Dis. Syndr. Fish, 6-7 March, 1990, Calcutta.*
- Chen, S.N. and Kou, G.H.** 1981. A cell line derived from Japanese eel (*Anguilla japonica*): ovary. *Fish Pathol.*, **16**: 129-137.
- Chen, S.N., Chi, S.C., Ueno, Y. and Kou, G.H.** 1983a. A cell line derived from tilapia ovary. *Fish Pathol.*, **18** : 13-18.
- Chen, S.N., Wen, S.C., Ueno, Y. and Kou, G.H.** 1983b. Establishment of cell line from kidney of tilapia. *Bull. Eup. Assoc. Fish Pathol.*, **4**: 1-4.
- Chen, S.N., Martin, F. and Kumlin, E.M.** 1989. Enteric septicaemia of channel catfish in California. *Calif. Fish Game*, **75**: 141-147.
- Chinabut, S.**1995. Epizootic ulcerative syndrome: the current state of knowledge. *In*: "Diseases in Asian Aquaculture Vol. II". (M. Shariff, J.R. Arthur and R.P. Subasinghe, Eds.). Manila, Philippines. Fish Health Section, Asian Fisheries Society. pp. 285–290.
- Chinabut, S. and Roberts, R.J.** 1999. Pathology and histopathology of epizootic ulcerative syndrome (EUS). Aquatic Animal Health Research Institute, Department of Fisheries, Bangkok. p.33.

- Chinabut, S., Roberts, R.J., Willoughby, G.R. and Pearson, M.D.** 1995. Histopathology of snakehead, *Channa striatus* (Bloch), experimentally infected with the specific *Aphanomyces* fungus associated with epizootic ulcerative syndrome (EUS) at different temperatures. *J. Fish Dis.*, **18**: 41–47.
- Chowdhury, A., Raha, P., Guha, P., Kole, R., Banerjee, H. and Das, M.K.** 1994. Effect of pesticides on the ulcerative disease syndrome of fish- a case study. *Poll. Res.*, **13**:161-167.
- Cooke, G.D. and Kenedy, R.L.** 1970. Eutrophication of Northern Chik lakes, introduction, morphometry and certain physico-chemical data of Poller lakes. *Ohio. J. Sci.*, **70**:150-161.
- Costa, H.H. and Wijeyaratne, M.J.S.** 1989. Epidemiology of epizootic ulcerative syndrome occurring for the first time in Srilanka. *J. Appl. Ichthyol.*, **5**: 48-52.
- Cruz - Lacierda, E.R. and Shariff, M.** 1996. Histopathology of epizootic ulcerative syndrome positive Snakehead, *Ophiocephalus striatus*, World Aquaculture,96 [Abstract].Annual meeting of the World Aquaculture Society, Jan 29- Feb.2 ,1996 , Bangkok, Thailand. P. 94.
- Csaba, G.Y., Prigli, M., Békésis, L., Kovacs, E., Bajmócy, E. and Fazekas, B.** 1981. Septicaemia in silver carp, *Hypophthalmichthys molitrix*, Val., and Bighead *Aristichthys nobilis*, Rich., caused by *Pseudomonas fluorescens*. *Proc. Int. Sem. on Fish, Pathogens and Environment in European Polyculture (Szavas, Hungary)*. pp.111- 123.
- Dahal, S.P., Shrestha, M.K., Pradhan, S.K. and Jha, D.K.** 2008. Occurrence of Epizootic Ulcerative Syndrome in Pond fish of Kapilvastu District of Nepal. *In*: "Diseases in Asian Aquaculture VI". (M.G. Bondad-Reantaso, C.V. Mohan, M. Crumlish and R.P. Subashinghe, Eds.). Manila, Phillipines. Asian Fishery Society. p.505.
- Das, A., Saha, D. and Pal, J.** 2007. Biochemical characterization and Plasmid profiles in bacteria Isolated from EUS affected *Cirrhinus mrigala*. *NBU J. Anim. Sc.*, **1**:35-40.
- Das, A., Saha, D. and Pal, J.** 2009. Antimicrobial resistance and in vitro gene transfer in bacteria isolated from the ulcers of EUS – affected fish in India. *Lett. Appl. Microbiol.*, **49**: 497-502.

- Das, D.** 1996. Epizootic ulcerative syndrome (EUS) of fishes in Assam and its impact on fisheries. Presented at National workshop on fish and prawn disease epizootics and quarantine adoption in India. Central Inland Captive Fisheries Research Institute, Barrackpore, India. October 9. pp. 25-30.
- Das, M. K.** 1988. The fish disease epizootic ulcerative syndrome – an overview. Presented at Souv. Inland Fish. Soc. Barrackpore. India. pp. 73-76.
- Das, M.K.** 1997. Epizootic ulcerative syndrome in fishes – its present status in India. Bull. No.69 (Golden Jubilee bulletin of CIFRI) of the Central Inland Captive Fisheries Research Institute, Barrackpore, West Bengal.
- Das, M.K. and Das, R.K.** 1993. A review of the fish disease epizootic ulcerative syndrome in India. *Environ. Sci.*, **11**: 134–135.
- Das, M.K. and Das, R.K.** 1995. Fish Diseases in India- A Review. *Environ. Ecol.*, **13**:533-541.
- Das, M.K., Pal, R.N., Ghosh, A.K., Das, R.K., Joshi, H.C., Mukhopadhyaya, M.K. and Hazra, A.** 1990. Epizootic Ulcerative Syndrome: a comprehensive account [Abstract]. Proc. Nat. Workshop on ulcerative disease syndrome in Fish, 6-7 March, 1990, Calcutta.
- Das, S.M.** 1957. Studies on the ecology of freshwaters of India. 1. Some physical, chemical and biological interrelations. *Proc. Nat. Acad. Sci. India*, **27**: 150 - 161.
- Das, S.M.** 1981. Final report on ecology and fisheries of Kumaon lakes. Report DST, Govt. of India, New Delhi. p.130.
- David, J.C. and Kirk, P.M.** 1997. Index of fungi. **6**:706.
- DFID**, 1994. Proceedings of the regional seminar on epizootic ulcerative syndrome. 25-27 Jan, 1994. The Aquatic Animal Health Research Institute, Bangkok.
- DFID**, 2001. Applied studies on epizootic ulcerative syndrome. Project R6979 of the Aquaculture Research Program of the Department for International Development of the United Kingdom. Final report. p. 24.

- Dobriyal, A.K. and Singh, H.R.** 1989. Observation on temporal trends of phytoplankton diversity in the river Nayar of Garhal Himalaya. *J. Freshwater Biol.*, **1**: 1-6.
- DoFD**, 2007. Country profile - Nepal 2006/2007 fishery sub-sector. Directorate of Fisheries Development (DoFD), Department of Agriculture, Balaju, Kathmandu, Nepal. p.3.
- Egidius, E., Wiik, R., Andersen, K., Hoff, K.A. and Hjeltnes, B.** 1986. *Vibrio salmonicida* sp. nov., a new fish pathogen. *Int. J. Syst. Bacteriol.*, **36**: 518–520.
- Egusa, S.** 1978. Infectious disease of fishes Koseisha-Koseikaku, Tokyo, Japan. p.554.
- Egusa, S. and Masuda, N.** 1971. A new fungal disease of *Plecoglossus altivelis*. *Fish Pathol.*, **6**: 41-46.
- Ellis, A.E., Hastings, T.S. and Munro, A.L.S.** 1981. The role of *Aeromonas salmonicida* extracellular products in the pathology of furunculosis. *J. Fish Dis.*, **4**: 41-51.
- Elmore, H.L. and West, W.F.** 1961. Effect of water temperature on stream reaeration. *J. Sanit. Eng. Div. ASCE*, **87**: 59-71.
- Esteve, C., Biosca, E.G. and Amaro, C.** 1993. Virulence of *Aeromonas hydrophila* and some other bacteria isolated from European eels, *Anguilla anguilla* reared in fresh water. *Dis. Aquat. Org.*, **16**: 15-20.
- FAO**, 1986. Report of the expert consultation on ulcerative fish diseases in Asia-Pacific region (TCP/ RAS/4508).5-9 August 1986, FAO, Regional office for Asia and the Pacific, Bangkok.
- FAO**, 2009. Report of the International Emergency Disease Investigation Task Force on a Serious Finfish Disease in Southern Africa, 8–26 May 2007. Food and Agriculture Organization of the United Nations, Rome.
- Forel, F.A.** 1892. “Le Lemán”. Monographie Limnologique. F. Rouge, Lausanne. Vol. I.
- Forel, F.A.** 1901. “Textbook of Limnology”. F. Rouge, Lausanne.

- Francis- Floyd, R.** 2009. Stress and its role in fish disease. CIR919, one of a series of the Fisheries and Aquatic Sciences. Retrieved from <http://edis.ifas.ufl.edu>.
- Fraser, G.C., Callinan, R.B. and Calder, L.M.** 1992. *Aphanomyces* species associated with red spot disease: an ulcerative disease of estuarine fish from eastern Australia. *J. Fish Dis.*, **15**: 173-181.
- Freirichs, G.N., Millar, S.D. and Roberts, R.J.** 1986. Ulcerative Rhabdovirus in fish in Southeast Asia. *Natr.*, **322**: 216.
- Freirichs, G.N., Hill, B.J. and Way, K.** 1989. Ulcerative disease rhabdovirus cell line susceptibility and serological comparison with other fish rhabdoviruses. *J. Fish Dis.*, **12**: 51-56.
- Freirichs, G.N., Morgan, D., Hart, D., Sherrow, C., Roberts, R.J. and Onions, D.E.** 1991. Spontaneously productive C type retrovirus infection of fish cell lines. *Fish Pathol.*, **19**:101-107.
- Ganapati, S.V.** 1941. Studies on the chemistry and biology of ponds in the Madras city. Seasonal changes in the physical and chemical conditions of a garden pond containing abundant aquatic vegetation. *J. Mad. Univ.*, **13**: 55-59.
- Ganapati, S.V.**1943. An ecological study of a garden pond containing abundant Zooplankton. *Proc. Indian Acad. Sci. (B)*, **17**: 41-58.
- Gautam, A.** 1990. "Ecology and Pollution of Mountain Waters". Ashish Publishing House New Delhi.
- Gelev, I., Gelev, E., Steigerwalt, A.G., Carter, G.P. and Brenner, D.J.** 1990. Identification of bacterium associated with haemorrhagic septicaemia in rainbow trout as *Hafnia alvei*. *Res. Microbiol.*, **141**: 573-576.
- George, M.G.** 1966. Comparative plankton ecology of five fish tanks in Delhi, India.
- Ghittino, P.** 1965. Viral haemorrhagic septicaemia (VHS) in rainbow trout in Italy. *Ann. N.Y. Acad. Sc.*, **126**: 468-477.

- Ghittino, P.** 1972. The principal aspects of bacterial fish diseases in Italy. *Symp. Zool. Soc. Lond.*, **30**: 25-38.
- Ghittino, P., Schwedler, H. and de Kinkelin, P.** 1984. The main infectious disease of intensively reared fish and their control methods. *In: Symposium on fish vaccination* (P. de Kinkelin, Ed.) pp. 5-38.
- Goncharov, G.D.** 1965. Rubella, a viral fish disease. *Ann. N.Y. Acad. Sci.*, **126**: 598- 600.
- Gopalakrishnan, V.** 1963. Controlling pest and diseases of cultured fishes. *Indian Livestock.*, **1**:51-54.
- Grawinski, E.** 1990. The Occurrence of red mouth disease in the rainbow trout (*Salmo gairdneri*, Richardson). *Med. Weter.*, **46**: 183-185.
- Grocott, R.G.** 1955. A stain for fungi in tissue sections and smears. *Am. J. Clin. Pathol.*, **25**: 975-979.
- Guizhen, J.** 1990. Peoples Republic of China report. *In: "Regional Research Programme on Relationship between Epizootic Ulcerative Syndrome in Fish and Environment"*. (M.J. Phillips and H.G. Keddie, Eds.). China. A report on the second technical workshop 13-26 Aug. 1990.
- Gupta, A.K. and Srivastava, N.K.** 1994. Conservation and management of a tropical wetland around Varuna river. *J. Freshwater Biol.*, **6**: 109-113.
- Haines, A. K.** 1983. Fish fauna and ecology. *In: "The purari-tropical environment of high rainfall river basin"*. (T. Petr, Ed.). Gravenhage. Dr. W. Junk Publishers. pp. 367-384.
- Hanisch, D.M. and Hunger, O.** 1998. The Thulagi glacial lake, Manaslu Himal Nepal-hazard assessment of a potential outburst. *Proc. Inter. Confer. Inter. Assoc. Engi. Geol. Environ. Vancouver.* (D. M. Hanish and O. Hunger, Eds.), pp. 2209 – 2215.
- Hannan, H.H. and Yong, W.J.** 1974. The influence of a deep storage reservoir on the physico-chemical limnology of a central Texas river. *Hydrobiol.*, **44**: 177- 207.

- Haque, N. and Khan, A.** 1994. Temporal and spatial distribution of cladoceran population in a freshwater pond at Aligarh. *J. Freshwater Biol.*, **6**: 225-229.
- Hatai, K.** 1980. Studies on pathogenic agents of saprolegniasis in freshwater fishes. Special Report of the Nagasaki Prefecture Institute of Fisheries No. 8, Nagasaki. p.95.
- Hatai, K., Egusa, S., Takahashi, S., Ooe, K.** 1977. Study on the pathogenic fungus of mycotic granulomatosis – I. Isolation and pathogenicity of the fungus from cultured ayu infected with the disease. *Fish Pathol.*, **12**: 129-133.
- Hawke, J.P.** 1979. A bacterium associated with disease of pond cultured channel catfish, *Ictalurus punctatus*. *J. Fish. Res. Bd. Can.*, **36**: 1508-1512.
- Hawke, J.P., McWhorter, A.C., Steigerwalt, A.G. and Brenner, D.J.** 1981. *Edwardsiella Ictaluri* sp. nov., the causative agent of enteric septicaemia of catfish. *Int. J. Syst. Bacteriol.*, **31**: 396-400.
- Hawke, J.P., Grooters, A.M. and Camus, A.C.** 2003. Ulcerative mycosis caused by *Aphanomyces invadans* in channel catfish, black bullhead, and bluegill from southeastern Louisiana. *J. Aquat. Anim. Health*, **15**: 120–127.
- Hedrick, R.P., Eaton, W.D., Fryer, J.L., Groberg, W.G. and Boonyaratpalin, S.** 1986. Characteristics of birna virus isolated from cultured sand goby (*Oxyeleotris marmoratus*). *Dis. Aquat. Org.*, **1**: 219-225.
- Hoshina, R.** 1962. Studies on the red disease of Japanese eel. *J. Tokyo Univ. Fish.*, **6**: 1-10.
- Hossain, M.S., Alam, M. and Majid, M.A.** 1992. Survey on fish disease “epizootic ulcerative syndrome” in Chandpur district, Bangladesh. *J. Train. Dev.*, **5**: 55-61.
- Huchzermeyer, K.D. and van der Waal, B.C.** 2012. Epizootic ulcerative syndrome: exotic fish disease threatens Africa's aquatic ecosystems. *J. South Afri. Vet. Assoc.*, **83**: 204.
- Hugh, R. and Leifson, E.** 1953. The taxonomic significance of fermentative versus oxidative metabolism of carbohydrates by various gram negative bacteria. *J. Bacteriol.*, **66**: 24.

- Huizinga, H.W., Esch, G.W. and Hazen, T.C.**1979. Histopathology of red sore disease (*Aeromonas hydrophila*) in naturally and experimentally infected largemouth bass *Micropterus salmoides* (Lacepede). *J. Fish Dis.*, **2**: 263-277.
- Humphrey, J. D. and Pearce, M.** 2004. Epizootic ulcerative syndrome (red-spot disease) [Report]. Fishnote, Fish Pathologist. Retrieved from www.nt.gov.au/dpifm.
- Hutchinson, A.H., Zucas, S.C. and McPhail, M.** 1992. Seasonal variation in the Chemical and physical properties of the waters of the Strait of Georgia in relation to phytoplankton. *Trans. Roy. Soc. Canada*, **3**: 177-183.
- Hutchinson, G.E.** 1967. "A Treatise on Limnology" Vol. II. Jone Wiley and Sons, Inc., New York. *Hydrobiol.*, **27**: 81-108.
- Hynes, H.B.N.** 1960. "The Biology of Polluted Waters". Univ. Press. Liverpool.
- Hynes, H.B.N.** 1971. The Biology of Polluted Waters. University of Tornato, Tornato. India. *IJABP*, **6**: 200-204.
- Jain, A., Rai, S.C., Pal, J. and Sharma, E.**1999. Hydrology and nutrient dynamics of a Sacred Lake in Sikkim Himalaya. *Hydrobiol.*, **416**: 13-22.
- Jain, A.K.** 1990. Status paper on the occurrence of epizootic ulcerative disease syndrome in fish and its adverse effect on freshwater fisheries of West Bengal. *Proc. Nat. workshop in ulcerative disease syndrome in fish*. 7th March, 1990, Culcutta.
- Jana, B.B.** 1998. State- of- the- art of lakes in India; An overview. *Arch. Hydrobiol. Suppl. Vol. (Monogr. Stud.)*, **121**: 1- 89.
- Jhingran, A.G.** 1990. Status of research on epizootic ulcerative syndrome: stratagey for containing the disease in India. *Proc.Nat.workshop on ulcerative disease syndrome in fish*. 6-7 March, 1990, Culcutta.
- Jhingran, A.G. and Das, M.K.** 1990. Epizootic ulcerative syndrome in fishes. [Newsletter] Bull. No.65. Central Inland Capture Fisheries Research Institute, Barrackpore, India.
- Jhingran, V.G.** 1991. "Fish and Fisheries of India" 3rd edition. Hindustan Publ. New Delhi.

- Jindal, R. and Kumar, R.** 1993. Limnology of a freshwater pond of Nalagarh (Himachal Pradesh India). 1. Physico-chemical complex. *In: "Advances in Limnology"* (H.R. Singh, Ed.). Narendra Publishing House, Delhi. pp. 107-112.
- Jo, Y. and Muroga, K.** 1972. *Vibrio anguillarum* isolated from eels cultured in fresh water ponds. *Fish Pathol.*, **6** : 117-119.
- Jo, Y. and Onishi, K.** 1980. *Aeromonas hydrophila* isolated from cultured Ayu (*Plecoglossus altivelis*). *Fish Pathol.*, **15** : 85-90.
- Jo, Y., Muroga, K. and Onishi, K.** 1975. Studies on red spot disease of pond cultured eel-III. A case of the disease in European eels (*Anguilla anguilla*) cultured in Tokushima prefectures. *Fish Pathol.*, **9**: 115-118.
- Jo, Y., Onishi, K. and Muroga, K.** 1979. *Vibrio anguillarum* isolated from cultured yellow tail. *Fish Pathol.*, **14**: 43-47.
- Kafle, G. and Savillo, I.T.** 2009. Present status of Ramsar sites in Nepal. *I.J. Biol. Cons.*, **1**: 146-150.
- Kanchanakhan, S.** 1996. Epizootic Ulcerative Syndrome (EUS): a new look at the old story. [Newsletter]. Aquat. Anim. Health Res. Inst. (AAHRI). **5**:2.
- Kant, S. and Anand, V.K.** 1978. Interrelationship of phytoplankton and physical factors in Ansar lake, Jammu, India. *J. Ecol.*, **5**: 134-140.
- Kar, D.** 1999. Studies on Epizootic Ulcerative Syndrome in Fishes of India. *Fishnet*, **2**:32.
- Kar, D.** 2000. Epizootic Ulcerative Syndrome Fish disease in Barak valley region of Assam, India. *Proc. Natl. Symp. on Current trends in Wetlands and Fisheries in the New Millennium*, 8-9, Nov. 2000, Assam University, Silchar :2.
- Kar, D.** 2013. Wetlands and Lakes of the World, pp.xxx + 687, Springer (London). Print ISBN 978-81-322-1022-1; e-Book ISBN: 978-81-322-1923-8.
- Kar, D. and Dey, S.C.** 1990a. A preliminary study of diseased fishes from Cachar district of Assam, *Matsya*, **15-16**: 155-161.

- Kar, D. and Dey, S.C.** 1990b. Fish Disease Syndrome: A preliminary study from Assam. *Bangladesh. J. Zool.*, **18**: 115-118.
- Kar, D. and Upadhyay, T.** 1998. Histopathological study of fishes affected by Epizootic Ulcerative Syndrome in Assam. *Proc. Natl. Symp. on Veterinary Pathology, Assam Agricultural University, Guwahati.* p.24.
- Kar, D. and Das, M.** 1999. Preliminary histochemical studies on fish tissues affected by Epizootic Ulcerative Syndrome in Assam. *Proc. Natl. Symp. on Fish Biotechnology, Central Institute of Fisheries Education, Mumbai.* **1**: 31.
- Kar, D., Dey, S.C. and Roy, A.** 1997. An account of fish disease (EUS) in Assam. *Proc. Natl. Workshop on Biodiver. Conserv. Prioritis. Project, Palamu National Tiger Reserve.* **1**:25.
- Kar, D., Dey, S.C. and Mandal, M.** 2000. An overview of Epizootic Ulcerative Syndrome in the fishes of India. *Proc. Int. Symp. Lake 2000, Indian Institute of Science, Bangalore.*
- Kar, D., Mazumdar, J. and Barbhuiya, M.A.** 2007. Isolation of Mycotic flora from fishes affected by Epizootic Ulcerative Syndrome in Assam, India. *Asian J. Microbiol. Biotech.*, **9**: 37-39.
- Kar, D., Michael, R.G., Karnad, S. and Changkija, S.** 1990. Studies on fish epidemics from Assam. *J. Inland Fish Assoc.*, **20**: 73-75.
- Kar, D., Kar, S., Roy, A. and Dey, S.C.** 1995a. Viral Disease Syndrome in Fishes of North East India. *Proc. Intl. Symp. of International Centre for Genetic Engineering & Biotechnology and University of California at Irvine.* **1**:14.
- Kar, D., Dey, S.C., Roy, A. and Kar, S.** 1996. Viral Disease Syndrome in Fishes of India. *Proc. Intl. Congr. Virol.*, p.10.
- Kar, D., Dey, S.C., Kar, S., Bhattacharjee, N. and Roy, A.** 1993. Virus-like particles in Epizootic Ulcerative Syndrome in freshwater fishes. *Proc. Intl. Symp. on Virus-Cell Interaction: Cellular and Molecular responses*, **1**:34.

- Kar, D., Roy, A., Dey, S.C., Menon, A.G.K. and Kar, S.** 1995b. Epizootic Ulcerative Syndrome in fishes of India. World Congress on In-Vitro Biology, USA. *In Vitro*, **31**:7.
- Kar, D., Dey, S.C., Kar, S., Bhattacharjee, S., Roy, A. and Changkija, S.** 1994. A candidate virus in Epizootic Ulcerative Syndrome in Freshwater fishes of India. *Proc. Natl. Symp., Indian Virological Society*. **1**: 23.
- Karunasagar, I., Abi, P.K.M.M. and Jeyasekaran, G.** 1986. Ulcerative forms of *Aeromonas hydrophila* infection of *Catla catla*. *Curr. Sci.*, **55**: 1194-1195.
- Karunasagar, I., Otta, S. and Karunasagar, I.** 1994. Mycological aspects of epizootic ulcerative syndrome in India. Intl. Symp. in Aquatic Animal Health: Programme and Abstracts Davis, CA, USA. P.42.
- Karunasagar, I., Sugumar, G. and Karunasagar, I.** 1995. Virulence characters of *Aeromonas* sp. isolated from EUS-affected fish. In: "Disease in Asian Aquaculture II ". (M. Shariff, J. R. Arthur and R.P. Subasinghe, Eds.). pp. 307-314. Manila, Philippines. Fish Health Section, Asian Fisheries Society.
- Karunasagar, I., Rosalind, G.M., Karunasagar, I. and Gopal Rao, K.** 1989. *Aeromonas hydrophila* septicaemia of Indian major carps in some commercial fish farms of West Godavari district, Andhra Pradesh. *Curr. Sci.*, **50**: 1044-1045.
- Khalaf, A.N. and Mc Donald, L.J.** 1975. Physico-chemical conditions in temporary ponds in the New Forest. *Hydrobiol.*, **47**:301-318.
- Khalil, S.A., Khalil, R.H., Saad, T.T. and Saafa, M.H.** 2010. Studies on *Pseudomonas septicemia* among cultured *Oreochromis niloticus*. *J. Arab. Aquac. Soc.*, **5**: 55- 64.
- Klein, L. 1957.** Aspect of river pollution better worth scientific pollution, London.
- Kocur, M.** 1986. Genus I. Micrococcus. In: "Bergeys Manual of Systematic Bacteriology." (Vol. II). (P.H.A. Sneath, N.S. Mair, M.E. Sharpe and J.G. Holt, Eds.). pp.1004-1008. Baltimore. William and Wilkins.

- Kocylowsky, B.** 1965. The role of virus in septicemia of carp (*Cyprinus carpio*) and pox of carp. Influence of environment in infection. *Ann. N.Y. Acad. Sci.*, **126**: 616- 619.
- Kumar, D., Dey, R. K. and Sinha, A.** 1991. Outbreak of epizootic ulcerative syndrome of fish in India. In: "Aquaculture Productivity". (V.R.P. Sinha and H.D. Srivastava, Eds.). pp. 345-365. Hindustan Lever Research Foundation.
- Kumar, D., Suresh, K., Dey, R.K. and Mishra, B.K.** 1986. Stress-mediated columnaris disease in rohu, *Labeo rohita* (Hamilton). *J. Fish. Dis.*, **9**: 87-89.
- Kumar, D., Dey, R. K., Mishra, B. K. and Kumar, K.** 1987. Ulcerative disease in *Catla catla* (Ham.) Presented at Research Highlight in the First Indian Fisheries Forum. Manglore, India. December 6-10.
- Kuo, S.K. and Kou, G.H.** 1978. *Pseudomonas anguilliseptica* isolated from red spot disease of pond-cultured eel, *Anguilla japonica*. *Rep. Inst. Fish. Biol., Min. Econ. Aff. Nat. Taiwan*.
- Kurup, B.H.** 1992. Appraisal of aquatic ecosystems of the EUS struck regions of Kuttanad (Kerala) *Fish. Chimes*, **12**: 27-33.
- Kusuda, R.** 1980. Pathogenic bacteria and diseases in marine fishes. *Mari. Sci. Month.*, **126**: 293-298.
- Kusuda, R. and Takahashi, Y.** 1970. Studies on scale protrusion disease of carp fishes I. Characteristics of *Aeromonas liquefaciens* isolated from diseased fishes. *Fish Pathol.*, **4**: 87-97.
- Kusuda, R., Komatsu, J. and Kawai, K.** 1978. *Streptococcus* sp. isolated from an epizootic of cultured eel. *Bull. Jpn. Soc. Sci. Fish.*, **44**: 295.
- Kusuda, R., Kawakami, K. and Kawai, K.** 1987. A fish pathogenic *Mycobacterium* sp. Isolated from an epizootic of cultured yellow tail. *Bull. Jpn. Soc. Sci. Fish.*, **53**:1797-1804.
- Kusuda, R., Kawai, K., Toyoshima, T. and Komatsu, I.** 1976. A new pathogenic bacterium belonging to the genus *Streptococcus* isolated from an epizootic of cultured yellow tail. *Bull. Jpn. Soc. Sci. Fish.*, **42**: 1345-1352.

- Latifa, G.A. and Acharya, G.S.** 2001. Evaluation of physico-chemical parameters in freshwater pond. *Ecoprint.*, **8**: 111-112.
- Leano, E. M., Lio- Po, G. D. and Dureja, L.A.** 1995. Siderophore detection among bacteria associated with the epizootic ulcerative syndrome (EUS). *In:*"Disease in Asian Aquaculture " (Vol. II). (M. Sharrif, J.R. Arthur and R.P. Subhasinghe, Eds.). pp. 315-325. Fish Health Section, Asian Fishery Society, Manila.
- Lerman, A. and Wevner, S.** 1989. Carbon dioxide storage and alkalinity in Ternda Lake. *Water Res.*, **23**: 139-146.
- Lewis, D.H.** 1985. Vibriosis in channel catfish. *Ictalurus punctatus* (Rafinesque). *J.Fish. Dis.*, **8**: 539-545.
- Lian, C.X.** 1990. Peoples Republic of China Report. Presented at Regional Research Programme on relationship between Epizootic Ulcerative Syndrome in Fish and the Environment. A Report on the Second Technical Workshop. NACA, Bangkok. August 13-28.
- Lilley, J.H. and Freirichs, G.N.** 1994. Comparison of rhabdovirus associated with ulcerative syndrome (EUS) with respect to their structural, proteins, cytopathology and serology. *J. Fish Dis.*, **17**: 513-522.
- Lilley, J.H. and English, V.** 1997. Comparative effects of various antibiotics fungicides and disinfectants on *Aphanomyces invaderis* and other saprolegniaceous fungi. *Aquacult. Res.*, **28**: 461-469.
- Lilley, J.H. and Roberts, R.J.** 1997. Pathogenicity and culture studies comparing the *Aphanomyces* involved in epizootic ulcerative syndrome (EUS) with other similar fungi. *J. Fish Dis.*, **20**: 135-144.
- Lilley, J.H., Phillips, M.J. and Tonguthai, K.** 1992. A review of epizootic ulcerative syndrome (EUS) in Asia. Aquatic Animal Health Research Institute and Network of Aquatic Centre in Asia and Pacific, Bangkok. p.73.
- Lilley, J.H., Callinan, R.B. and Khan, M.H.** 2002. Social, economic and biodiversity impacts of epizootic ulcerative syndrome (EUS). *In:* "Primary Aquatic Animal Health Care in

- Rural, Small-scale, Aquaculture Development" (Vol. Tech. Pap.No.406). (J.R. Arthur, M.J. Phillips, R.P. Subasinghe, M.B. Reantaso and I.H.M. Rae, Eds.). pp. 127-139. FAO Fish.
- Lilley, J.H., Thompson, K.D. and Adams, A.** 1997b. Characterization of *Aphanomyces invadans* by electrophoretic and Western blot analysis. *Dis. Aquat. Org.*, **30**: 187-197.
- Lilley, J.H., Hart, D., Richards, R.H., Roberts, R.J., Cerenius, L. and Söderhäll, K.** 1997a. Pan-Asian spread of single fungal clones in large scale fish kills. *Veterinary Record* **140**: 653-654.
- Lilley, J.H., Callinan, R.B., Chinabut, S., Kanchanakhan, S., MacRae, I.H. and Phillips, M.J.** 1998. Epizootic Ulcerative Syndrome (EUS) Technical Handbook. The Aquatic Animal Health Research Institute (AAHRI) Bangkok. P.88.
- Limsuwan, C. and Chinabut, S.** 1983. Histological changes of some freshwater fishes during 1982-83 disease outbreaks. *Proc. Symp. on Freshwater Fish Epidemic 1982-83, Chulalongkorn University, Bangkok, 23-24 June 1983.* p. 255.
- Lio-Po, G.D., Albright, L.J. and Alapide-Tendencia, E.V.** 1992. *Aeromonas hydrophila* in the epizootic ulcerative syndrome (EUS) of snakehead (*Ophicephalus striatus*) and catfish (*Clarias batrachus*), quantitative estimation in natural infection and experimental induction of dermomuscular necrotic lesion. In: "Diseases in Asian Aquaculture" (Vol. I). (M. Shariff, J.R. Arthur and R.P. Subasinghe, Eds.). pp. 461-474. Makati, Metro Manila. Asian Fisheries Society, Fish Health Section.
- Lio-Po, G.D., Albright, L.J. and Leano, E.M.** 1998. Experimental induction of lesions in snakeheads (*Ophiocephalus striatus*) and catfish (*Clarias batrachus*) with *Aeromonas hydrophila*, *Aquaspirillum* sp., *Pseudomonas* sp. and *Streptococcus* sp.. *J. Appl. Ichthyol.*, **14**: 75-79.
- Llobrera, A.T. and Gacutan, R.Q.** 1987. *Aeromonas hydrophila* associated with ulcerative disease epizootic in laguna de Bay, Philippines. *Aquacult.*, **67**: 273-278.

- Loffler, H.** 1969. High altitude lakes in Mt. Everest region. *Verh. Internat. Verein. Limnol.* **17**: 373 – 385.
- Lohman, K., Jones, M.F.K., Swar, D.G., Pamperl, M.A. and Brazos, B.J.** 1988. Pre and post monsoon limnological characteristics of lakes in the Pokhara and Kathmandu Valleys, Nepal. *Verh. Internat. Verein. Limnol.*, **23**: 558-565.
- Lucky, Z.** 1977. Key Methods for the diagnosis of fish diseases. *In*: "Methods for the diagnosis of fish diseases ". (G.L. Hoffman, Ed.). pp. 51-60. New Delhi, India. Amerind publish Co. Pvt. Ltd..
- Lumanlan-Mayo, S.C., Catap, E.S., Paclibare, J.O., Callinan, R.B. and Fraser, G.C.** 1996. World Aquaculture, '96. Book of Abstracts. Presented at Annual meeting of the World Aquaculture Society. Bangkok, Thailand. January 29 - February 2. pp. 240-241.
- Lumanlan-Mayo, S.C., Callinan, R.B., Paclibare, J.O., Catap, E.S. and Fraser, G.C.** 1997. Epizootic ulcerative syndrome (EUS) in rice- fish culture systems: an overview of field experiments 1993-1995. *In*: " Disease in Asian aquaculture III". (T.W., Flegel and I.H., MacRae, Eds.). pp.129-138. Fish Health Section, Asian Fisheries Society, Manila.
- Lumsden, J.S., Ostland, V.E., MacPhee, D.D, Derksen, J. and Ferguson, H.W.** 1994. Protection of Rainbow trout from experimentally induced bacterial gill disease caused by *Flavobacterium branchiophilum*. *J. Aquat. Anim. Health*, **6**: 292-302.
- Macan, T.T.** 1963. "Freshwater Ecology". Longman, London.
- Macintosh, D. J. and Phillips, M. J.** 1986. The contribution of environmental factors to the ulcerative disease condition in South East Asia. *In*: "Field and Laboratory Investigations into Ulcerative Fish Diseases in the Asia-Pacific Region ". (Robert R.J., Ed.). pp. 175-207. Bangkok.
- Mallergaard, S. and Dalsgaard, I.** 1986. Hanbog I Alesygdomme. Danmarks Fiskeriog Hanandarm- gelsers rapport No. 293:46.

- Mandal, A.K., Nandi, N.C., Sarkar, N.C. and Mandal, F.B.** 1990. Preliminary investigation on the possible causative agent of epizootic ulcerative syndrome of fishes of West Bengal. *Ind. J. Fish.*, **37**: 61-62.
- Marks, J.E., Lewis, D.H. and Trevino, G.S.** 1980. Mixed infection in columnaris disease of fish. *J Am. Vet. Med. Assoc.*, **177**: 811-814.
- Mary Helen, P.A., Jayasree, S., Antony Johnson, J., Belsha Jaya, E.I. and Chittarasu, H.** 2011. Seasonal Variations in Physico-Chemical Parameters of Water in Coconut Husk Retting Area, Parakkani, Tamil Nadu. *Int. J. Env. Sc.*, **1**: 1056-1061.
- Mastan, S.A. and Qureshi, T.A.** 2001. Experimentally induced Epizootic Ulcerative Syndrome in *Labeo rohita* (Ham.) *Indian J. Anim. Health*, **40**: 93-96.
- Mawdesly- Thomas, L.E. and Jolly, D.W.** 1968. Disease of fish- III. The trout. *J. small Anim. Pract.*, **9**:167-188.
- Mawdesly- Thomas, L.E.** 1969. Furunculosis in the gold fish (*Carasius auratus*). *I.J. Fish Biol.*, **1**: 19-23.
- McColl, R.H.S.** 1972. Chemistry and trophic status of seven New Zealand Lakes. *N.Z.J. Mar. Freshwater Res.*, **6**: 399-447.
- McEachern, P.** 1994. Limnology and the natural wetlands survey. *In*: "Safeguarding Wetlands in Nepal ". (B. Bhandari, T.B. Shrestha and P. McEachern, Eds.). pp. 89-103. IUCN, Nepal.
- McGarey, D.J., Milanesi, L., Foley, D.P., Reyes (Jr.), B., Frye, L.C. and Lim, D.V.** 1991. The role of motile aeromonads in the fish disease, ulcerative disease syndrome. *Experientia*, **47**: 441-444.
- McLean, E.** 1996. Growth accelerating biotechnologies for aquaculture: present status, future trends. [Abstract]. World Aquaculture Society, 29 January- 2 February 1996, Bangkok, Thailand. pp. 251-252.

- Meguro, Y., Nakai, T., Muroga, K. and Sorimachi, M.** 1991. A Cell line derived from the fin of Japanese Flounder, *Paralichthys olivaceus*. *Gyobyō Kenkyū*, **26**: 69-75.
- Meyers, T.R., Sullivan, J., Emmuregger, E., Follrütt, J., Short, S., Batts, W.N. and Winton, J.R.** 1992. Identification of viral septic haemorrhagic septicemia virus isolated from Pacific Cod G. *Gadus macrocephalus* in Prince William Sound, Alaska, USA. *Dis. Aquat. Org.*, **12**: 167-175.
- Miaczyanski, T.B.** 1965. Viral diseases and diseases of uncertain etiology in fish in Poland. *Ann. N.Y. Acad. Sci.*, **126**: 620-628.
- Miyashita, T.** 1984. *Pseudomonas fluorescens* and *Edwardsiella tarda* isolated from diseased tilapia. *Fish Pathol.*, **19**: 45-50.
- Michael, R.G.** 1969. Seasonal trends in physico-chemical factors and plankton of a freshwater fish pond and their role in fish culture. *Hydrobiol.*, **33**: 144 - 160.
- Mishra, A.P., Bora, B.K. and Sharma, M.** 1998. Investigations on the seasonal variation of certain Physico- chemical parameters of a Beel, Assam, India. *J. Freshwater Biol.*, **10**: 83-87.
- Mishra, A.P., Bora, B.K., and Sharma, M.** 1999. Limnological investigation of a freshwater tributary Assam, India. *J. Freshwater Biol.*, **11**: 1-5.
- Miyazaki, T.** 1980. Histopathological study on bacterial infections in fishes. *Bull. Fac. Fish. Mie Univ.*, **7**: 63-149.
- Miyazaki, T. and Egusa, S.** 1972. Studies on mycotic granulomatosis in fresh water fishes-I. Mycotic granulomatosis in gold fish. *Fish Pathol.*, **7**: 12-25.
- Miyazaki, T. and Egusa, S.** 1973a. Studies on mycotic granulomatosis in fresh water fishes-II. Mycotic granulomatosis in ayu. *Fish Pathol.*, **7**: 125-133.
- Miyazaki, T. and Egusa, S.** 1973b. Studies on mycotic granulomatosis in fresh water fishes-III. Mycotic granulomatosis in blue-gill. *Fish Pathol.*, **8**: 41-43.

- Miyazaki, T. and Egusa, S.** 1973c. Studies on mycotic granulomatosis in fresh water fishes-IV. Mycotic granulomatosis in wild fishes. *Fish Pathol.*, **8**: 44- 47.
- Miyazaki, T. and Kubota, S.S.** 1975. Histopathological studies on furunculosis in amago. *Fish Pathol.*, **9**: 213-218.
- Miyazaki T. and Egusa, S.** 1977. Histopathological studies of red spot disease of the Japanese eel (*Anguilla japonica*). I. Natural infection. *Fish Pathol.*, **12**: 39-59.
- Miyazaki, T. and Plumb, J.A.** 1985. Histopathology of *Edwardsiella ictaluri* in channel catfish, *Ictalurus punctatus* (Rafinesque). *J.F.Dis.*, **8**: 389-392.
- Miyazaki, T., Kubota, S.S. and Miyashita, T.** 1984. A histopathological study of *Pseudomonas fluorescens* infection in tilapia. *Fish Pathol.*, **19** : 161-166.
- Mohan, C.V. and Shankar, K.M.** 1994. Epidemiological analysis of epizootic ulcerative syndrome of fresh and brackishwater fishes of Karnataka, India. *Curr. Sci.*, **66**: 656-658.
- Mohan, C.V. and Shankar, K.M.** 1995. Role of fungus in epizootic ulcerative syndrome of fresh and brackishwater fishes of India: a histopathological assessment. *In*: "Disease in Asian Aquaculture II". (M. Shariff, J. R. Arthur and R.P. Subasinghe, Eds.). pp. 299-305. Manila. Fish Society.
- Mohan, C.V., Callinan, D., Fraser, G. and Shankar, K.M.** 1999. Initiation and progression of epizootic ulcerative syndrome (EUS) in mullets in brackishwater ponds of Karnataka, India. *4. Symposium on Disease in Asian Aquaculture (DAA IV), Cebu City (Philippines), 22 -26 November 1999.*
- Mohanta, B.K. and Patra, A.K.** 1992. Ulcerative fish disease in tropical air-breathing teleost, *Anabas testudineus* (Bloch). *J. Freshwater Biol.*, **4**: 295-297.
- Moitra, S.K. and Bhattacharya, B.K.** 1965. Some hydrobiological factors affecting plankton production in fish pond at Kalyani W.B. India. *Ichthyol.*, **4**: 8-12.
- Mondal, D., Pal, J., Ghosh, T.K. and Biswas, A.K.** 2012. Abiotic characteristics of Mirik Lake water in the hills of Darjeeling, West Bengal, India. *Adv. Appl. Sc. Res.*, **3**: 1335-1345.

- Mool, P.K., Bajracharya, S.R. and Joshi, S.P.** 2001. Inventory of Glaciers, Glacial Lakes and Glacial Lake Outburst Floods Monitoring and Early Warning Systems in the Hindu Kush-Himalayan Region, Nepal. ICIMOD, Kathmandu, p.363.
- Morrison, E.E. and Plumb, J.A.** 1994. Olfactory organ of channel catfish as a site of experimental *Edwardsiella ictaluri* infection, *J. Aquat. Anim. Health*, **6**: 101-109.
- Moyle, J.B.** 1946. Some chemical factors influencing the distribution of aquatic plants in Minesota. *Amer. Midi. Natl.*, **34**: 402-426.
- Mudenda, H.B.** 2012. Epizootic Ulcerative Syndrome (EUS) in Africa – current state University of Zambia, School of Veterinary Medicine Lusaka, Zambia. Retrieved from www.rrafrica.oie.int/docspdf/en/2012/AAH/14_EUS_Africa_Mudenda.pdf
- Mukherjee, M.** 1996. Repeated isolation on CAN bacteria from fish epizootic ulcerative syndrome as sole pathogen and the probable human health hazards to control measures. Presented at National workshop on Fish and Prawn disease epizootics and quarantine adoption in India. Central Inland Capture Fisheries Research Institute Barrackpore, India. October 9. pp. 68-72.
- Mukherjee, S.C.** 1992. Dropsy due to *Aeromonas hydrophila* in conjunction with malnutrition in fishes. Annual report, CIFA.
- Mukherjee, S.C.** 1996. Fish diseases in intensive farming systems and its control measures with special reference to Orissa. In: “National workshop on Fish and Prawn disease Epizootics and Quarantine Adoption in India.” October 9, 1996. Central Inland Capture Fishery Research Institute, Barrackpore, India. pp. 10-15.
- Mukherjee, S.C., Handra, S. and Nayak, K.** 1991. Studies on biochemical differences among isolates of *Aeromonas* obtained from ulcerative disease affected fishes. *Proc. Nat. Symp. on New Horizons in fresh water aquaculture, 23-25th January 1991, Bhubaneswar, India.* 186-188.
- Munawar, M.** 1970. Limnological studies on fresh water ponds of Hyderabad, India. *Hydrobiol.*, **36**:105-128.

- Muroga, K. and Egusa, S.** 1967. *Vibrio anguillarum* from an endemic disease of Ayu in Lake Hamana. *Bull. Japan Soc. Sci. Fish.*, **33**: 636- 640.
- Muroga, K. and Nakajima, K.** 1981. Red spot disease of cultured eels- methods for artificial infection. *Fish Pathol.*, **15** : 315-318.
- Muroga, K., Jo, Y. and Yano, M.** 1973. Studies on red spot disease of pond cultured eel-I. The occurrence of the disease in eel culture ponds in Tokushima prefecture in 1972. *Fish Pathol.*, **8**: 1-9.
- Nakai, T. and Muroga, K.** 1982. *Pseudomonas anguilliseptica* isolated from European eels (*Anguilla anguilla*) in Scotland. *Fish Pathol.*, **17**: 147-150.
- Nakai, T. Hanada, H. and Muroga, K.** 1985. First record of *Pseudomonas anguilliseptica* infection in cultured ayu, *Plecoglossus altivelis*. *Fish Pathol.*, **20**: 481-484.
- Nasar, S.A.K. and Munshi, J.S.D.** 1971. Studies on macrophytic biomass production and fish population in an abandoned pond of Bhagalpur, Bihar. *J. Bh.U.*, **41**: 8-16.
- Needham, J.G. and Needham, P.R.** 1962. "A Guide to the Study of Freshwater". Comstock, Ithaca, New York.
- Niroula, B., Singh, K.L.B., Thapa, G.B. and Pal, J.** 2010. Seasonal Variations in Physico-Chemical Properties and Biodiversity in Betana Pond, Eastern Nepal .*Our Natr.*, **8**: 212-218.
- Noga, E.J., and Dykstra, M.J.** 1986. Oomycete fungi associated with ulcerative mycosis in menhaden, *Brevoortia tyrannus* (Latrobe). *J. Fish Dis.*, **9**: 47-53.
- Noga, E.J., Wright, J.F., Levine, J.F., Dykstra, M.J. and Hawkins, J.H.** 1991. Dermatological diseases affecting fishes of the Tar- Palmlico Estuary, North Carolina. *Dis. Aquat. Org.*, **10**: 87-92.
- Novotony, A.J.** 1978. Vibriosis and furunculosis in marine cultured salmon in Puget Sound. *Washington Mar. Fish. Rev.*, **40**: 52-55.

- Ohtsuka, H., Nakai, T., Muroga, K. and Jo, Y.** 1984. A typical *Aeromonas salmonicida* isolated from diseased eels. *Fish Pathol.*, **19**: 101-107.
- Oidtmann, B., Steinbauer, P., Geiger, S. and Hoffmann, R.W.** 2008. Experimental infection and detection of *Aphanomyces invadans* in European catfish, rainbow trout and European eel. *Dis. Aquat. Org.*, **82**: 195–207.
- OIE.** 2000. Diagnostic Manual for Aquatic Animal Diseases. Third edition, Office International des Épizooties (OIE), World Organisation for Animal Health Paris.
- OIE.** 2013. Epizootic ulcerative syndrome. *In: Manual of Diagnostic Tests for Aquatic Animals*, Office International des Epizooties. pp. 1–13.
- Okpokwasili, G.C. and Okpokwasili, N.P.** 1994. Virulence and drug resistant patterns of some bacteria associated with “brown patch” disease of tilapia. *J. Aqua. Trop.*, **9**: 223-233.
- Olivier, G.** 2002. Disease interactions between wild and cultured fish – prespectives from an American Northeast (Atlantic Provinces). *Bull.Eur.Assoc.Fish Pathol.*, **22**: 103-109.
- Onada, O.A., Akinwale, A.O and Ajani, E.K.** 2015. Study of interrelationship among water quality parameters in earthen pond and concrete tank. Department of Aquaculture and Fisheries Management, University of Ibadan, Nigeria. *Peer J. Pre Print*. Retrieved from <http://dx.doi.org/10.7287/peerj.preprints.845v1>.
- Ormerod, S. J., Buckton, S. T., Brewin, P. A., Jenkins, A., Johnson, R. C., Juttner, U. and Suren, A.** 1996. Biodiversity, chemistry and structure in streams of the Nepalese Himalaya. *Proc. Inter. Confer. Ecohydrol. High Mount. Kathmandu, Nepal*. pp. 197-200.
- Paclibare, J.O., Catap, E.S. and Callinan, R.B.** 1994. Fungal isolation from EUS affected fish in the Philippines. *Proc.ODA Reg. Sem. on Epizootic Ulcerative Syndrome, Aquatic Animal Health Research, 25-27 January 1994. AAHRI, Bangkok*. pp. 238-243.
- Pahwa, D.V. and Mehrotra, S.N.** 1966. Observations on fluctuations in abundance of plankton in relation to certain hydrobiological conditions of river Ganga. *Proc. Natl. Acad. Sci. India*. **36 B 2**: 57-189.

- Pal, J.** 1996. The fish disease, epizootic ulcerative syndrome: the present state of research and its impact in North Bengal. *Proc.Natl. Workshop on Fish and Prawn Diseases, Epizootics and Quarantine Adoption in India, October, 9. CIFRI, Barrackpore.* pp. 95-98.
- Pal, J.** 1997. Etiology of the ulcerative fish disease, epizootic ulcerative syndrome. Nat. Sem. on perspective of Biotech. In Anim. Res. in India. Department of Zoology, North Bengal University, West Bengal, India. February 12-13. p.25.
- Pal, J. and Pal, B.C.** 1986. Induction of tumours by bacterial culture. *In: "Perspectives in cytology and genetics, Vol. 5"* (G.K. Manna and U. Shinha, Eds.). pp. 661-668. New Delhi, India Congress of Cytology and Genetics.
- Pal, J. and Pradhan, K.** 1990. Bacterial involvement in ulcerative condition of air breathing fish from India. *J. Fish Biol.*, **36**: 833-839.
- Palharya, J.P. and Malviya, S.** 1988. Pollution of the Narmada at Hoshangabad in Madhya Pradesh and suggest measure for control. *In: "Ecology and Pollution of Indian Rivers"* (R.K. Trivedy, Ed.), pp. 55-86. Ashish Publishing House, New Delhi.
- Palisoc, F.J. and Aralar, E.** 1994. Relation between epizootic ulcerative syndrome (EUS) in fish and the environment in the Laguna Lake, Philippines. *Intl. Symp. on Aquat. Anim. Health: Program and Abstracts. Davis, CA, USA.* 20.6.
- Palisoc, F.J. and Aralar, E.** 1995. Relation between the environment in the Laguna Lake and Lake Naujan and the epizootic ulcerative syndrome (EUS) in fish. [Abstract]. Fourth Asian Fisheries Forum, 16-20 October, 1995, Beijing, China. p.36.
- Palleroni, N.J.** 1984. Genus I. Pseudomonas. *In: "The Bergey's Manual of Systematic Bacteriology Vol. 1"*. (N. R. Kreig and J. G. Holt, Eds.). pp.141-199. Baltimore. William and Wilkins.
- Palui, D., Shrivastava, V.K. and Jha, B.C.** 2003. Eutrophication in Kaithkhola Ox-Bow lake, North Bihar. *J. Inland Fish. Soc. India.*, **35**: 19 -24.
- Pandey, K.K. and Lal, M.S.** 1995. Limnological studies of Garhwal Himalayan hill stream Khandagad: Seasonal fluctuation in abiotic profile. *J. Freshwater Biol.*, **7**: 7-11.

- Paperna, I.** 1980. Parasite infections and diseases of fish in Africa. CIFA Technical paper, No.7, FAO. Rome. p.216.
- Parisara, N.** 2015. Water quality evaluation of Konandur pond, Thirthalli, Karnataka, India. *Ind. J. Appl. Biol.*, **6**: 200-204.
- Pathiratne, A. and Jayasinghe, R.P.P.K.** 2001. Environmental influence on the occurrence of epizootic ulcerative syndrome (EUS) in freshwater fish in the Bellanwila-Attidiya wetlands, Sri Lanka. *J. Appl. Ichthyol.*, **17**: 30–34.
- Patralekh, L.N.** 1994. Comparative account of physico - chemical properties of three fresh water ecosystems. *J. Freshwater Biol.*, **6**: 115-119.
- Phillips, M.J.** 1989. A report on the NACA workshop on the regional research programme on ulcerative syndrome in fish and the environment. 20-24 March 1989. Network of Aquaculture Centres in Asia-Pacific, Bangkok.
- Pichyangkura, S. and Bodhalmik, V.** 1983. The study of *Achlya* sp. of fish disease in *Ophiocephalus striatus*. Presented at the symposium on fresh water epidemic: 1982-1983. Chulalongkorn University, Bangkok. June 23-24 pp. 197-205.
- Pillay, T.V.R.** 1996. Challenges facing aquaculture development. In: "World Aquaculture". Jan 29 - Feb 2. 1996 abstracts. p.312. World Aquaculture Society, Bangkok, Thailand.
- Plumb, J.A. and Sanchez, D.J.** 1983. Susceptibility of five species of fish to *Edwardsiella ictaluri*. *J. Fish Dis.*, **6**: 261-266.
- Plumb, J.A. and Hilge, V.** 1987. Susceptibility of European catfish (*Silurus glanis*) to *Edwardsiella ictaluri*. *J. Appl. Ichthyol.*, **3**: 45-48.
- Popoff, M.** 1984. Genus III. Aeromonas. In: "The Bergey's Manual for Systematic Bacteriology. Vol I". (N. Kreig and J.G. Holt, Eds.). pp. 545-548. Baltimore. William and Wilkins.
- Pradhan, K.** 1992. Studies on bacterial involvement in the ulcerative disease of fishes. Ph.D. Thesis, University of North Bengal, India.

- Pradhan, K. and Pal, J.** 1990. Experimental Induction of Ulcer in the fish *Channa punctatus* by bacteria. *Environ. Ecol.*, **8**: 812-815.
- Pradhan, K., Pal, J. and Das, A.** 1991. Ulcerative fish disease in Indian major carps: Isolation of bacteria from ulcers. *Environ. Ecol.*, **9**: 510-515.
- Pradhan, P.K., Rathore, G., Sood, N., Swaminathan, T.R., Yadav, M.K., Verma, D.K., Chaudhary, D.K., Abidi, R., Punia, P. and Jena, J.K.** 2014. Emergence of epizootic ulcerative syndrome: large-scale mortalities of cultured and wild fish species in Uttar Pradesh, India. *Current Sci.*, 106: 1711-1718.
- Prasad, Y., Qureshi, T.A., Mastan, S.A. and Chauhan, R.** 1995. Studies on the pathogenicity of *Aeromonas hydrophila* isolated from EUS affected fishes. [Abstract]. Fourth Asian Fisheries Forum, 16-20 October, 1995, Beijing, China. p.38.
- Prusty, S.K. and Nayak, S.K.** 1990. Status paper on the occurrence of UDS in the state of Orissa. In: *Proc. Nat. workshop in ulcerative disease syndrome in fish*. 6-7 March, 1990, Calcutta.
- Qureshi, T.A., Chauhan, R., Prasad, Y. and Mastan, S.A.** 1995a. Mycological studies on EUS affected catfish, *Mystus cavasius* [Abstract]. Fourth Asian Fisheries Forum, 16-20 October, 1995 Beijing, China. p.38.
- Qureshi, T.A., Prasad, Y., Mastan, S.A. and Chauhan, R.** 1995. Bacteriological investigation on EUS affected fishes. [Abstract]. Fourth Asian Fisheries Forum, 16-20 October, 1995 Beijing, China.p.39.
- Rahim, Z., Aziz, K.M.S., Hoque, M.I. and Saeed, H.** 1985. Isolation of *Aeromonas hydrophila* from the wounds of five species of brackish water fish of Bangladesh. *Bangladesh J. Zool.*, **13**: 37-42.
- Rahman, M., Navarro, P.C., Kuhn, I., Huys, G., Swings, I. and Mollby, R.** 2002. Identification and characterisation of pathogenic *Aeromonas veronii biovar sobria* associated with epizootic ulcerative syndrome in fish in Bangladesh. *Appl. Environ. Microbiol.*, **68**: 650-655.

- Rahman, T., Choudhury, B. and Barman, N.** 1988. Role of UDS affected fish in the health of ducks in Assam: an experimental study. *Proc. of the Symp. on Recent Outbreak of Fish Disease in North Eastern India. 30 December 1998, Gauhati, Assam, India.* P.10.
- Ram, S.M.T.** 1992. UDS epidemic hits fish in Haryana. HAU scientists isolate disease organism. *Fish. Chimes*, **12**: 49-50.
- Rattanaphani, R., Wattanavijaran, W., Tesprateep, T., Wattanodorn, S., Sukolopong, V., Vetchagarun, S. and Eongpakornkeaw, A.** 1983. Preliminary report on fish virus on snakehead fish. *Thai. J. Vet. Med.*, **13**: 44-50.
- Rawat, M.S., Juyal, C.P. and Sharma, R.C.** 1995. Morphometry and physico- chemical profile of high altitude lake Deoria Tal of Garwal Himalaya. *J. Freshwater Biol.*, **7**: 1-6.
- Ray, P. and David, A.** 1966. Effect of industrial wastes and sewage upon the chemical and biological composition and fisheries of the river Ganga at Kanpur. *Environ. Health*, **8**: 307-339.
- Ray, P., Singh, S.B., and Sehgal, K.L.** 1966. A study on some aspects of the river Ganga and Jamuna at Allahabad (U.P.) in 1958-59. *Proc. Nat. Acad. Sci.*, **36B**: 235-272.
- Rayamajhi, A. and Bajracharya, K.** 2005. Surveillance of fish parasites and diseases. Annual Technical Report F Y 2004/05, NARC Fisheries Research Division (FRD), Godawari.pp. 61-80.
- Reantaso, M.B.** 1991. EUS in brackishwaters of Phillipines. *Fish Health Section Newsletter*, **2**: 8-9. Asian Fisheries Society, MCPO box 1501, Metro Manila.
- Reid, G.K.** 1961. "Ecology of Inland Water and Streams". Reinhold Publication Corporation, New York.
- Roberts, R.J., Frerichs, G.N. and Millar, S.D.** 1992. Epizootic Ulcerative Syndrome- the current position. *In: Symposium on disease in Asian Aquaculture (M. Shariff, R. Subasinghe and R. Arthur, Eds.)*. pp. 431-436. Asian fishery Society, Manila.

- Roberts, R.J., Willoughby, L.G. and Chinabut, S.** 1993. Mycotic aspects of epizootic ulcerative syndrome (EUS) of Asian fishes. *J. Fish. Dis.*, **16**: 169-183.
- Roberts, R.J., Wotten, R., MacRae, I., Millar, S. and Struthers., W.** 1989. Ulcerative disease survey, Bangladesh. Final report to the Government of Bangladesh and the ODA, Institute of Aquaculture, Stirling University, Scotland. p.104.
- Roberts, R.J., Macintosh, D.J., Tonguthai, K., Boonyaratpalin, N. Tayaputch, N., Phillips M.J. and Millar, S.D.** 1986. Field and laboratory investigations into ulcerative fish diseases in the Asia Pacific region. Technical Report of FAO Project TCP/RAS/4508, Bangkok, Thailand. p. 214.
- Rodgers, L.J. and Burke, J.B.** 1981. Seasonal variation in the prevalence of red spot disease in estuarine fish with particular reference to sea mullet, *Mugil cephalus* L. *J. Fish Dis.*, **4**: 297-307.
- Routh, S.C.** 2006. Evaluation of the role of fungi and bacteria in causing epizootic ulcerative syndrome in fishes. Ph.D. Thesis. University of North Bengal, India.
- Roy, H.** 1955. Plankton ecology of river Hooghly (West Bengal). *Ecol.*, **36**: 169-744.
- Roy, H.K. and Pal, J.** 2003. Evaluation of the role of physicochemical factors of pond water on the outbreak of epizootic ulcerative syndrome of fish. Orion Press International, Chandranagar, India. *Recent Adv. Anim. Sci. Res.*, **2**: 244-250.
- Ruttner, F.** 1953. "Fundamentals of Limnology". University of Toronto Press, Toronto.
- Saeed, M.O., Alamoudi, M.M. and Al Harbi, A.H.** 1987. A *Pseudomonas* associated with disease in cultured rabbit fish, *Siganus rivulatus* in the red sea. *Dis. Aquat. Org.*, **3**: 177-180.
- Saha, D. and Pal, J.** 2000. Bacteriological Studies on Fishes Affected with Epizootic Ulcerative Syndrome. *Asian Fish. Sci.*, **13**: 343-355.

- Saha, D. and Pal, J.** 2002. Suceptibility of the fish *Heteropneustes fossilis* to three pathogenic bacteria isolated from fishes with Epizootic Ulcerative Syndrome. *Environ. Ecol.*, **20**: 822-825.
- Saha, D.**1998. Studies on the role of bacteria isolated from ulcers of fishes and causing ulcers in experimental fishes. Ph.D.Thesis, Zoology, University of North Bengal. P.86.
- Saha, D., Mahapatra, B.K. and Dutta, N.C.** 1992. Epizootic ulcerative syndrome in the fishes of the Sunderbans, West Bengal with a note on its control. *Proc. Zool. Soc., Calcutta*, **45** (Suppl. A): 201-204.
- Saitanu, K., Wongsawang, S., Sunyasootcharee, B. and Sahaphong, S.** 1986. Snakehead fish virus isolation and pathogenicity studies. *Proc.First Asian Fisheries Forum, Manila, Phillipines, 26-31 May*. pp. 327-330.
- Sakai, M., Atsuta, S. and Kobayashi, M.** 1989. *Pseudomonas fluorescenes* isolated from diseased rainbow trout *Onchorynchous mykiss*. *Kitasato Arch. Exp. Med.*, **62**: 157-162.
- Sakhare, V.B. and Joshi, P.K.** 2004. Present status of reservoir fisheries in Maharastra. *Fish. Chimes*, **24**: 56-60.
- Samal, N.R. and Majumdar, A.** 2005. Management of Lake Ecosystem. *The Ekol.*, **3**: 123-130.
- Sammut, J., Callinan, R.B. and Fraser, G.C.** 1995. Impacts of estuarine acidification on wild fish [Abstract]. Fourth Asian Fisheries forum, 16-20 October, 1995 Beijing,China. p.46.
- Sanaullah, M., Hjeltnes, B. and Ahmed, A.T.A.** 2001. The relationship of some environmental factors and the epizootic ulcerative syndrome outbreaks in beel Mahmoodpur, Faridpur, Bangladesh. *Asian Fish. Sci.*, **14**: 301-316.
- Sanders, J.E. and Fryer, J.L.** 1980. *Renibacterium salmoninarum* gen. nov., sp. nov., the causative agent of bacterial kidney disease in salmonid fishes. *Int. J. Syst. Bactol.*, **30**: 496-502.
- Sanjeevaghosh, D.** 1992. Socio-economic impact of epizootic ulcerative syndrome on the inland fish folk of Kerala. Consultation on Epizootic Ulcerative Syndrome (EUS) *vis-à-vis* the

- Environment and the People. International Collective in Support of Fish Workers. 25-26 May, 1992. Trivandrum, India.
- Sardesai, U.D.** 1996. Status report on epizootic ulcerative syndrome and prawn disease in the state of Goa. Presented at National workshop on fish and prawn disease epizootics and quarantine adoption in India. Central Inland Captures Fisheries Research Institute, Barrackpore, India. October 9. pp. 99-102.
- Schäperclaus, W.** 1934. Untersuchungen über die Aalseuchen in deutschen Küsten- und Küstengewässern 1930-1933. *Zeit. Fisch.*, **32**: 191-217.
- Schäperclaus, W.** 1965. "Etiology of infectious dropsy". *Ann. N.Y. Acad. Sci.*, **126**: 587-600.
- Schäperclaus, W.** 1969. Virusinfektionen bei Fischen. In: "Handbuch der Virusinfektionen bei Tieren" (H. Rohrer, Ed.), pp. 1067-1141. VEB Gustav Fischer, Jena.
- Schäperclaus, W.** 1986. "Fish Diseases." (Fifth edition, W. Schäperclaus, H. Kulow and K. Schreckenbach, Eds.). Oxonian Press Pvt. Ltd. New Delhi.
- Schäperclaus, W.** 1991. "Fish diseases, Vol I" (5th corrected, revised and substantially enlarged edition), Oxonian Press Pvt. Ltd., New Delhi, Calcutta. pp. 46 - 71.
- Schäperclaus, W.** 1991. "Fish diseases Vol. II". (5th corrected, revised and substantially enlarged edition 1991) Oxonian Press Pvt. Ltd., New Delhi; Calcutta. pp.487 -509.
- Shaheen, A.A., Sayed, E.EI. and Faisal, M.** 1999. Isolation of *Aphanomyces* sp. associated with skin lesion and mortalities in the striped (*Mugil cephalus*) and the thin lip (*Liza ramanda*) grey mullets. *Bull. Euro.Assoc. Fish Pathol.*, **19** : 79-82.
- Sharma, B.S. and Agarwal, A.** 1999. Assessment of water quality of river Yamuna at Agra. *Polln. Res.*, **18**: 109-110.
- Sharma, U.P.** 1996. Ecology of the Koshi river in Nepal-India (North Bihar): A typical river ecosystem. In: *Environment and Biodiversity: In the Context of South Asia* (P.K. Jha, G.P.S. Ghimire, S.B. Karmacharya, S.R. Baral and P. Lacaual, Eds.), pp.92-99. Ecological Society (ECOS), Kathmandu, Nepal.

- Sharma, U.P., Pandey, K.N. and Prakash, V.** 1994. Ecology of fishes of Wetland (Begusarai) Bihar. *J. Freshwater Biol.*, **6**: 49-55.
- Shiose, J., Wakabayashi, H., Tominaga, M. and Egusa, S.** 1972. A report on a disease of cultured carp due to capsulated *Pseudomonas*. *Fish Pathol.*, **9**: 79-83.
- Shrestha G.B.** 1990. Nepal Report. In: Regional research program on relationship between EUS in fish and the environment, 13-20 August 1990, NACA, Bangkok.
- Shrestha, G.B.** 1994. Status of epizootic ulcerative syndrome (EUS) and its effects on aquaculture in Nepal. *Proc. ODA Reg. Sem.on Epizootic Ulcerative Syndrome, 25-27 January 1994, AAHRI, Bangkok.* pp.49-57.
- Shrestha, J.** 1994. "Fishes, Fishing Implements and Methods of Nepal". (Majupuria, T.C., Ed.) Pub. Smt. Gupta, M.D. Lalitpur Colony, Lashkar.
- Shrestha, J.** 2001. Taxonomic revision of fishes of Nepal. In: "Environment and Agriculture: Biodiversity, Agriculture and Pollution in South Asia" (P.K., Jha, S.R., Baral and S.B., Karmacharya, Eds.). pp.171-180. *Ecological Society (ECOS), Kathmandu, Nepal.*
- Shrestha, J., Singh, D.M. and Saund, T.B.** 2009. Fish Diversity of Tamor river and its Major Tributaries of Eastern Himalayan Region of Nepal. *Nepal J. Sci. Tech.*, **10**: 219-223.
- Shrestha, M.K. and Mishra, R.N.** 2014. Fish Production Systems in Nepal. National Fisheries and Aquaculture Program. Annual Innovation Lab Council Partners Workshop; March 10-12, 2014; Shangri-La Hotel, Kathmandu.
- Shrestha, T.K.** 2008. Fish Diversity of Nepal and Potentiality of indigenous Fishes for Future Development of Aquaculture. Presented at Workshop on Indigenous Fish Stock and Livelihood Organised by NARC and DoFD. FRD, Godawari, Lalitpur. June 5th. pp. 1-20.
- Singh, H.P.** 1990. Distribution and seasonal fluctuation of certain physico-chemical features in the Brahmaputra River. *J. Assam Sci. Soc.*, **32**: 64-69.
- Singh, H.P., Choudhary, M. and Kolekar, V.** 1982. Seasonal and diurnal changes in physico-chemical features of the river Brahmaputra at Guwahati. *Indian J. Zool.*, **23**: 77- 84.

- Singh, J., Agrawal, D.K. and Panwar, S.** 2008. Seasonal variations in different physicochemical Characteristics of Yamuna river water quality in proposed Lakhwar hydropower project influence area. *Int. J. Appl. Env. Sc.*, **3**: 107-117.
- Singh, M.** 1995. Impact of human activities on the physico-chemical conditions of two fish ponds at Patna, India. *J. Freshwater Biol.*, **7**: 13-17.
- Sinha, A.K., Baruah, A., Singh, D.K. and Sharma, U.P.** 1994. Biodiversity and pollutional status in relation to physico-chemical factors of Kawar Lake Wetland (Begusarai), North Bihar. *J. Freshwater Biol.*, **6**: 309- 315.
- Sitdhi, B.** 1989. A report on epizootic ulcerative syndrome of fish in India. Gov. of India, New Delhi, India.
- Smith, I.W.** 1964. The occurrence and pathology of Dee disease. *Freshwater and Salmon Fisheries Research*. No.34, p.12.
- Snieszko S.F.,** 1974. The effects of environmental stress on outbreaks of infectious diseases of fishes. *J. Fish Biol.*, **6**: 197 - 208.
- Sosa, E.R., Landsberg, J.H., Stephenson, C.M. and Forstchen, A.B.** 2007a. 'Aphanomyces invadans and ulcerative mycosis in estuarine and freshwater fish in Florida'. *J. Aquat. Anim. Health*, **19**: 14–26.
- Sosa, E.R., Landsberg, J.H., Kiryu, Y., Stephenson, C.M., Cody, T.T., Dukeman, A.K., Wolfe, H.P., Vandersa, M.W. and Litaker, R.W.** 2007b. 'Pathogenicity studies with the fungi *Aphanomyces invadans*, *Achlya bisexualis*, and *Phialemonium dimorphosporum*: Induction of skin ulcers in striped mullet'. *J. Aquat. Ani. Health*, **19**: 41–48.
- St. Nicolau, E.A.** 1951. Studii se certainia de Inframicrob Microb as Parasitol. AN. **2**: 53-93.
- Stanier, R.Y., Palleroni, N.J. and Doudoroff, M.** 1966. The aerobic Pseudomonads: a taxonomic study. *J. Gen. Microbiol.*, **43**: 159-271.

- Stewart, D.J., Woldemarius, K., Dear, G. and Mochaba, F.** 1983. An outbreak of 'Sekitenbyo' among cultured European eels, *Anguilla anguilla* L. in Scotland. *J. Fish Dis.*, **6**:75-76.
- Subasinghe, R.P.** 1993. Effects of controlled infections of *Trichodina* sp. on transmission of epizootic ulcerative syndrome (EUS) to native snakehead *Ophiocephalus striatus* (Bloch). *J. Fish Dis.*, **16**: 161-164.
- Subasinghe, R.P., Jayasinghe, L.P., Balasuriya, K.S.W. and Kulathilake, M.**1990. Preliminary investigation into the bacterial and fungal pathogens associated with the ulcerative fish disease syndrome in Srilanka. *Proc. Sec. Asian Fisheries Forum* 17-22 April, 1990. Tokyo, Japan. pp. 655-657.
- Subramaniam, S.M., Chew-lim, S.Y., Chong, J. Howe, Ngoh, G.H. and Chan, Y.C.** 1993. Molecular and electron microscopic studies of infections of pancreatic necrosis virus from snake head. IX th International congress of Virology. Glasgow, U.K. (Abstract), p.368.
- Swarup, K. and Singh, S.R.** 1979. Limnological studies on Suraha lake (Ballia). *J. Inland Fish. Soc. India*, **11**: 22-23.
- Saylor, R.K., Miller, D.L., Vandersea, M.W., Bevelhimer, M.S., Schofield, P.J. and Bennet, W. A.** 2010. Epizootic ulcerative syndrome caused by *Aphanomyces invadans* in captive bullseye snakehead *Channa marulius* collected from south Florida, USA. *Dis. Aquat. Organ.*, **88**: 169-75.
- Takahashi, Y.** 1984b. Studies on the Aeromonas disease of cyprinids. *J. Shimonoseki Univ. Fish.*, **33**: 37-112.
- Thapa Chhetry, D. and Pal, J.** 2011. Physico-chemical Parameters of Koshi River at Kushaha Area of Koshi Tappu Wildlife Reserve. *Our Nature*, **6**: 16-25.
- Thapa, G.B. and Pal, J.** 2012. Studies on some physicochemical parameters of Baidya and Itahari Municipality fish ponds, Nepal. *NBU J. Anim. Sc.*, **6**: 26-39.

- Thapa, G.B. and Pal, J.** 2014. Evaluation of physico-chemical characters of Singhia and Budhi rivers in Sunsari and Morang Industrial corridor, Nepal. *Int. J. Adv. Res. Biol. Sci.*, **1**: 104–112.
- Thienemann, A.** 1926. *Limnologie*. Jedermans Bicherei, Breslau.
- Thresh, J. C., Beale, J. F. and Suckling, E. V.** 1949. The examination of water and water supplies (E.W. Taylor, Ed.), London. J. and A. Churchill Ltd.
- Tomasec, I.** 1951. Intraživanja O etiologiji zarazne vodene bolesti šerana (*Cyprinus carpio* L) *Vet. Arch.*, **21**: 101-143.
- Tomasec, I. and Fijan, N.N.** 1965. The etiology of infectious dropsy of carp. *Ann. N.Y. Acad. Sci.*, **126**: 606-615.
- Tonguthai, K.** 1985. A preliminary account of ulcerative fish disease in the Indo-Pacific region (a comprehensive study based on Thai experiences) National Inland Fisheries Institution, Bangkok, Thailand. p.39.
- Torres, J.L., Tajima, K. and Shariff, M.** 1993. Numerical taxonomy and virulence screening of *Aeromonas* spp. isolated from healthy and ulcerative disease syndrome – positive fishes. *Asian Fish. Sci.*, **6**: 11- 22.
- Trivedy, R.K. and Goel, P.K.** 1986. “Chemical and Biological Methods for Water Pollution Studies.” Environmental Publications, Karad, Maharashtra, India.
- Trust, T.J.** 1986. Pathogenesis of infectious disease of fish. *Ann. Rev. Microbiol.*, **40**: 479-502.
- Trust, T.J., Kouri, A.G., Austen, R.A. and Ashburner, L.D.** 1980. First isolation in Australia atypical *Aeromonas salmonicida* . *FEMS Microbiol. Lett.*, **9**: 39-42.
- Ulcerative Fish Disease Committee.** 1993. Practical Report of the Ulcerative Fish Disease Committee, 1982-1983, Bangkok.
- Vedros, N. A.** 1984. Genus 1 Neisseria. In: "The Bergey's Manual of Systematic Bacteriology " (Vol. 1). (N. Kreig and J. G. Holt, Eds.). pp. 290-296. Baltimore. William and Wilkins.

- Virgona, J.L.** 1992. Environmental factors influencing the prevalence of cutaneous ulcerative disease (red spot) in the sea mullet, *Mugil cephalus* L. in the Clarence river, New South Wales, Australia. *J. Fish Dis.*, **15**: 363-378.
- Vishwanath, T.S., Mohan, C.V. and Shankar, K.M.** 1997. Clinical and histopathological characterization of different types of lesions associated with epizootic ulcerative syndrome (EUS). *J. Aquac. Tropics.*, **12**: 35–42.
- Vishwanath, T.S., Mohan, C.V. and Shankar, K.M.** 1998. Epizootic ulcerative syndrome (EUS), associated with a fungal pathogen, in Indian fishes: histopathology – ‘a cause for invasiveness’. *Aquac.*, **165**: 1–9.
- Vogelbein, W.K., Shields, J.D., Has, L.W. Reece, K.S. and Zwerner, D.E.** 2001. Skin ulcers in Estuarine Fishes. A comparative pathological evaluation of wild and laboratory exposed fish, Environmental health prospective Volume 109. Supplement 5, October.
- Volf, F. and Havelka, J.** 1965. Investigation of the course of the infectious dropsy (ID) of carp. *Ann. N. Y. Acad. Sci.*, **126**: 601-605.
- Wakabayashi, H., and Egusa, S.** 1972. Characteristics of *Pseudomonas* sp. from an epizootic of pond cultured eels (*Anguilla japonica*). *Bull. Jap. Soc. Sci. Fish.*, **38**: 577-587.
- Water and Energy Commission Secretariat(WECS).** 2002. “Status of wetlands in Nepal.” HMG / Nepal, Kathmandu.
- Wattanavijarn, W., Tesaprateep, T., Sukolapong, V., Vetchangarun, S. and Eongpakornkeaw, A.** 1983a. Virus like particles in the liver of snakehead fish. *Thai. J. Vet. Med.*, **13**: 51-57.
- Wattanavijarn, W., Tangtrongpiros, J., Rattanaphani, R., Sukolapong, V., Eongpakornkeaw, A. and Vetchangarun, S.** 1984. Examination of sick cat fish by scanning and transmission electron microscopy. *Thai. J. Vet. Med.*, **14**: 31-38.
- Wattanavijarn, W. Ousavaplangchai, L., Rattanaphani, R., Sukolapong, V., Tesaprateep, T., Eongpakornkeaw, A., Tangtrongpiros, J., Vetchangarun, S. and Thirapatsakun, T.** 1983b. Virus like particles in the skeletal muscle capillaries and spleen of sick

- snakehead fish (*Ophiocephalus striatus*) during a disease epidemic. *Thai. J. Vet. Med.*, **13**: 122-130.
- Wedemeyer, G.** 1970. The role of stress in disease resistance of fishes. *Am. Fish. Soc.*, **5**: 30-35.
- Wedemeyer, G.** 1974. Stress as a predisposing factor in fish diseases. *U.S. Fish Wildl. Serv., Fish Dis. Leaflet* 38.
- Wedemeyer, G., Meyer, F. and Smith, L.S.** 1977. "Environmental Stress and Fish Disease". T.F.H. Publications, N. Jersey.
- Welch, P.S.** 1952. "Limnological Methods" (2nd edition). MC. Graw Hnill Book Co. New York.
- Wetzel, R.G.** 2001. "Limnology:Lake and River ecosystems" (3rd edition). Academic Press, U.S.A. 1-1006.
- Whittington, R.J., Gudkovs, N., Carrigan, M.J., Ashburner, L.D. and Thurstan, S.J.** 1987. Clinical, microbiological and epidemiological findings in recent outbreaks of gold fish ulcer disease due to *A. salmonicida* in Southern Australia. *J. Fish Dis.*, **10**: 353-362.
- Wiklund, T. and Bylund, G.** 1990. *Pseudomonas anguilliseptica* as a pathogen of salmonid fish in Finland. *Dis. Aquat. Org.*, **8**: 13-19.
- Willoughby, L.G. and Roberts, R.J.** 1994. Improved methodology for isolation of the *Aphanomyces* fungal pathogen of epizootic ulcerative syndrome (EUS) in Asian fish. *J. Fish Dis.*, **17**: 541– 543.
- Willoughby L.G., Roberts, R.J. and Chinabut, S.** 1995. *Aphanomyces invaderis* sp. nov., the fungal pathogen of freshwater tropical fish affected by epizootic ulcerative syndrome. *J. Fish Dis.*, **18**: 273–276.
- Wilson, K.D. and Lo, K.S.** 1992. Fish Disease in Hong Kong and the potential role of the veterinarian. 23rd Annual Conference on the International Association for Aquatic Animal Medicine (IAAAM), 18-22 May 1992. Hong Kong.
- Wood, E.M. and Yasutake, B.A.** 1956. Histopathology of kidney disease in fish. *Am. J. Pathol.*, **32**: 845-857.

- World Aquaculture**, 1996. Book of Abstracts. Annual meeting of the World Aquaculture Society, Jan. 29-Feb.2, 1996. Bangkok, Thailand. pp. 240-241.
- Wright, J.F., Moss, D., Armitage, P.D. and Furse, M.T.** 1985. A preliminary classification of running water sites in Great Britain based on macro invertebrate species and the prediction of community type environmental data. *Freshwater Biol. Assoc.*, **53**: 80- 93.
- Xuan, T.T.**1990. Vietnam report. *In*: Regional Research Programme on Relationship between Epizootic Ulcerative Syndrome in Fish and Environment (M.J. Phillips and H.G. Keddie, Eds.). A Report on the Second Technical Workshop, 13-26 Aug., 1990.
- Yashushi, M., Nakai, T., Muroga, K. and Sorimachi, M.** 1991. A cell line derived from the fin of Japanese Flounder *Paralichthys olivaceus*. *Gyobyu Kenkyo*, **26**: 69-75.
- Yousuf, A.R. and Bhat, F.A.** 2006. Limnological features of River Jhelum and its important tributaries in Kashmir Himalaya with a note on fish fauna. *J. Himalayan Ecol. Sustain. Dev.*, **1**: 37-50.
- Zachariah, T.** 1992. Effects of some physicochemical factors on the outbreak of epizootic ulcerative syndrome in the Vembanda lake of Kerala (India). *J. Zool. Soc. Kerala.*, **2**: 52-54.
- Zutshi, D.P. and Khan, M.A.** 1977. Limnological investigations of two sub-tropical lakes. *Geobios.*, **4**: 45-48.