BIBLIOGRAPHY

Abbott, S. L., Cheung, W. K. W. & Janda, J. M. 2003. The genus *Aeromonas*: biochemical characteristics, atypical reactions, and phenotypic identification schemes. *Journal of Clinical Microbiology* 41 (6): 2348–2357.

Abbott, S. L., Seli, L. S., Catino, M., Jr, Hartley, M. A. & Janda, J. M. 1998. Misidentification of unusual *Aeromonas* species as members of the genus *Vibrio*: a continuing problem. *Journal of Clinical Microbiology* 36: 1103–1104.

Abeyta, C., Jr., Kaysner, C. A., Wekell, M. M., Sullivan J. J. & Stelma, G. N. 1986. Recovery of *Aeromonas hydrophila* from oysters implicated in an outbreak of foodborne illness. *Journal of Food Protection* 49: 643–646.

Adams, C. A., Austin, B., Meaden, P. G. & McIntosh, D. 1998. Molecular characterization of plasmid-mediated oxytetracycline resistance in *Aeromonas salmonicida. Applied and Environmental Microbiology* 64 (11): 4194- 4201.

Adzitey, F. 2015. Antibiotic classes and antibiotic susceptibility of bacterial isolates from selected poultry; a mini review. *The World's Veterinary Journal* 5 (3): 36-41.

Agarwal, R. K., Kapoor, K. N. & Kumar, A. J. 1998. Virulence factors of aeromonads-an emerging food borne pathogen problem. *Journal of Communicable Disease* 30: 71–78.

Akici, A., Aydin, V. & Kiroglu, A. 2018. Assessment of the association between drug disposal practices and drug use and storage behaviors. *Saudi Pharmaceutical Journal* 26 (1): 7–13.

Alabi, S. A. & Odugbemi, T. 1990. Plasmid screening amongst *Aeromonas species* and *Plesiomonas shigelloides* isolated from subjects with diarrhea in Lagos, Nigeria. *African Journal of Medical and Health Sciences* 19 (4): 303-306.

Al-Benwan, K., Abbott, S., Janda, J. M. & Albert, M. J. 2007. Cystitis caused by *Aeromonas caviae*. *Journal of Clinical Microbiology* 45: 2348–2350.

Alborzian-Deh-Sheikh, A., Honari, H. & Hosseini, R. 2015. GenBank Data. Accession number KR905056.

Ali, A., Carnahan, A. M., Altwegg, M., Luthy-Hottenstein, J. & Joseph, S. W. 1996. *Aeromonas bestiarum sp*. nov. (formerly genomospecies DNA group 2 *A. hydrophila*), a new species isolated from non-human sources. *Medical Microbiology Letters* 5: 156–165.

Alperi, A. & Figueras, M. J. 2010. Human isolates of *Aeromonas* possess shiga toxin genes (stx1 and stx2) highly similar to the most virulent gene variants of *Escherichia coli*. *Clinical Microbiology and Infection* 16 (10): 1563-1567.

Alperi, A., A. J. Martinez-Murcia, A. Monera, M. J. Saavedra & Figueras, M. J. 2010b. *Aeromonas fluvialis* sp. nov., isolated from a Spanish river. *International Journal of Systematic and Evolutionary Micobiology* 60: 72-77.

Alperi, A., A. J. Martinez-Murcia, W. C. Ko, A. Monera, M. J. Saavedra & Figueras, M. J. 2010a. *Aeromonas taiwanensis* sp. nov. and *Aeromonas sanarellii* sp. nov., clinical species from Taiwan. *International Journal of Systematic and Evolutionary Micobiology* 60: 2048-2055.

Altschul, S. F., Gish, W., Miller, W., Myers, E. W. & Lipman, D. J. 1990. Basic local alignment search tool. *Journal of Molecular Biology* 215 (3): 403-410.

Altwegg, M. & Geiss, H. K. 1989. *Aeromonas* as human pathogen. *Critical Reviews in Microbiology* 16: 253-286.

Altwegg, M., Martinetti Lucchini, G., Luthy-Hottenstein, J. & Rohrbach, M. 1990a. *Aeromonas*-associated gastroenteritis after consumption of contaminated shrimp. *European Journal of Clinical Microbiology and Infectious Diseases* 10:44-45.

Altwegg, M., Steigerwalt, A. G., Altwegg-Bissig, R., Luthy-Hottenstein, J. & Brenner, D. J. 1990b. Biochemical identification of *Aeromonas* genospecies isolated from humans. *Journal of Clinical Microbiology* 28 (2): 258-264.

AlYahya, S. A., Ameen, F., Al-Niaeem, K. S., Al Sa'adi, B. A., Hadi, S. & Mostafa, A. A. 2018. Histopathological studies of experimental *Aeromonas hydrophila* infection in blue tilapia, *Oreochromis aureus*. *Saudi Journal of Biological Sciences* 25: 182- 185.

Angel, M. F., Zhang, F., Jones, M., Henderson, J. & Chapman, S. W. 2002. Necrotizing fasciitis of the upper extremity resulting from a water moccasin bite. *The Southern Medical Journal* 95:1090–1094.

Ansari, M. I., Grohmann, E. & Malik A. 2008. Conjugative plasmids in multi-resistant bacterial isolates from Indian soil. *Journal of Applied Microbiology.* 104 (6): 1774–1781.

Aravena-Roman, M., Beaz-Hidalgo, R., Inglis, T. J. J., Riley, T. V., Martinez-Murcia, A. J., Chang, B. J. and Figueras, M. J. 2013. *Aeromonas australiensis* sp. nov., isolated from irrigation water. *International Journal of Systematic and Evolutionary Microbiology* 63: 2270-2276.

Armelagos, G. J. 1969. Disease in ancient Nubia. *Science* 163: 225–258.

Ash, C., Martinez-Murcia, A. J. & Collins M. D. 1993a. Identification of *Aeromonas schubertii* and *Aeromonas jandaei* by using a polymerase chain reaction-probe test. *FEMS Microbiology Letters* 108: 151–156.

Ash, C., Martinez-Murcia, A. J. & Collins, M. D. 1993b. Molecular identification of *Aeromonas sobria* by using a polymerase chain reaction-probe test. *Medical Microbiol Letters* 2: 80–86.

Austin, B. & Adams, C. 1996. Fish pathogens. In The genus *Aeromonas*, eds. B. Austin, M. Altwegg, P. J. Gosling, and S. W. Joseph. John Wiley and Sons, New York, N.Y., p. 197–243.

Austin, B. 1997. Progress in understanding the fish pathogen *Aeromonas salmonicida. Trends in Biotechnology* 15(4): 131- 134.

Ausubel, F. M., Kingston, R. E., Moore, D. D., Seidman, J. G., Smith, J. A., Struhl, K. 2003. Preparation of genomic DNA from bacteria. *Current Protocols in Molecular Biology* 208-209.

Awan, M. B., Ahmed, M. M., Bari, A. & Saad, A. M. 2005. Biochemical characterization of the *Aeromonas* species isolated from food and environment. *Pakistan Journal of Physiology* 1: 1-2.

Bagum, N., Monir, M. S. & Khan, M. H. 2013. Present status of fish diseases and economic losses due to incidence of disease in rural freshwater aquaculture of Bangladesh. *Journal of Innovation and Development Strategy* 7: 48-53.

Barancheshme, F. & Munir, M. 2018. Strategies to combat antibiotic resistance in the wastewater treatment plants. *Frontiers in Microbiology* 8 (2603): 1- 12.

Barrow, G. I. & Feltham, R. K. A. 1993. Cowan and Steel's manual for the identification of medical bacteria. Cambridge University press. 3rd edition.

Bassett, E. J., Keith, M. S., Armelagos, G. J., Martin, D. L. & Villanueva, A. R. 1980. Tetracycline-labeled human bone from ancient Sudanese Nubia (A.D. 350). *Science* 209: 1532–1534.

Baumgartner, F., Seizt, L., Sprenger, G. A. & Albermann, C. 2013. Construction of *Escherichia coli* strains with chromosomally integrated

expression cassettes for the synthesis of 20 –fucosyllactose. *Microbial Cell Factories* 12 (40): 1-13.

Bayerdorffer, E., Schwarzkopf-Steinhauser, G. & Ottenjann, R. 1986. New unusual forms of colitis: report of four cases with known and unknown etiology. *Hepatogastroenterology* 33:187–190.

Beaz-Hidalgo, R., Alperi, A., Figueras, M. J. & Romalde, J. L. 2009. *Aeromonas piscicola* sp. nov., isolated from diseased fish. *Systematic and Applied Microbiology* 32: 471- 479.

Beaz-Hidalgo, R., Latif-Eugenin, F., Hossain, M., Berg, K., Niemi, R., Rapala, J., Lyra, C., Liles, M. and Figueras, M. J. 2015. *Aeromonas aquatica* sp. nov., *Aeromonas finlandiensis* sp. nov. and *Aeromonas lacus* sp. nov. isolated from Finnish waters associated with cyanobacterial blooms. *Systematic and Applied Microbiology* 38: 161–168.

Belland, R. J. & Trust T. J. 1989. *Aevomonas salmonicida* plasmids: plasmid-directed synthesis of proteins *in uitro* and in *Eschevichia coli m*inicells. *Journal of General Microbiology* 135: 513- 524.

Bello, H. S., Mustafa, A., Ismail H. Y., Isa M. A. & Mangga, H. K. 2016. Detection of *Aeromonas* Species from water sources in North Eastern Nigeria. *International Journal of Innovative Science, Engineering & Technology* 3 (2): 140-148.

Bennett, P. M. 2008. Plasmid encoded antibiotic resistance: acquisition and transfer of antibiotic resistance genes in bacteria. *British Journal of Pharmacology* 153: S347–S357.

Berger, F. K., Mellmann, A., Farber, J., Von Muller, L. & Gartner, B. 2018. Advantages and disadvantages of rifampicin use in orthopedic patients to avoid *Clostridium difficile* infections. *Journal of Orthopaedic research and Therapy* 2018 (1): 1- 2.

Black, R. 1993. Persistent diarrhea in children in developing countries. *The Pediatric Infectious Disease Journal* 12: 751-761.

Block, K., Braver, J. M. & Farraye, F. A. 1994. *Aeromonas* infection and intramural hemorrhage as a cause of small bowel obstruction. *The American Journal of Gastroenterology* 89:1902–1903.

Bollin, M. 2014. Occurrence of multiple antibiotic resistant bacteria in aquatic environments in Central Minnesota. Honors Theses. College of Saint Benedict, Saint John's University 29: 1-41.

Bonomo, RA. 2011. New Delhi metallo-beta-lactamase and multidrug resistance: a global SOS? *Clinical Infectious Diseases* 52(4): 485-487.

Borella, L., Salogni, C., Vitale, N., Scali, F., Moretti, V. M., Pasquali, P. & Alborali, G. L. 2020. Motile aeromonads from farmed and wild freshwater fish in northern Italy: an evaluation of antimicrobial activity and multidrug resistance during 2013 and 2016. *Acta Veterinaria Scandinavica* 62 (6): 1-8.

Borrego, J. J., Morinigo, M. A., Martinez-Manzanares, E., Bosca, M., Castro, D., Barja, J. L. & Toranzo, A. E. 1991. Plasmid associated virulence properties of environmental isolates of *Aerornonas hydrophila. Journal of Medical Microbiology* 35: 264-269.

Borrell, N., Acinas, S. G., Figueras, M. J. & Martinez-Murcia, A. J. 1997. Identification of *Aeromonas* Clinical isolates by restriction fragment length polymorphism of PCR-amplified 16S rRNA Genes. *Journal of Clinical Microbiology* 35 (7): 1671-1674.

Borrell, N., Figueras, M. J. & Guarro, J. 1998. Phenotypic identification of *Aeromonas* genomospecies from clinical and environmental sources. *Canadian Journal of Microbiology* 44:103–108.

Bossi-Kupfer, M., Genini, A., Peduzzi, R. & Demarta, A. 2007. Tracheobronchitis caused by *Aeromonas veronii* biovar sobria after near-drowning. *Journal of Medical Microbiology* 56:1563–1564.

Brann, O. S. 2001. Infectious complications of cirrhosis. *Current Gastroenterol*ogy *Reports* 3: 285–292.

Brooks, G. F., Butel, J. S. & Morse, S. A. 2004. Jawetz, Melnick and Adelberg‟s Medical Microbiology, 23rd Edition. McGraw Hill Companies, Singapore.

Brown, R. L., Sanderson, K. & Kirov, S. M. 1997. Plasmids and *Aeromonas* virulence. *FEMS Immunology and Medical Microbiology* 17 (4): 217- 223.

Brzostek, A., Dziadek, B., Rumijowska-Galewicz, A., Pawelczyk, J. & Dziadek, J. 2007. Cholesterol oxidase is required for virulence of *Mycobacterium tuberculosis. FEMS Microbiology Letters* 275: 106-112.

Bullock, G. L. 1961. The identification and separation of *Aeromonas liquefaciens* from *Pseudomonas fluorescens* and related organisms occurring in deaseased fish. *Applied Microbiology* 9: 587- 590.

Burke, V., Robinson, J., Gracey, M., Peterson, D. & Partridge, K. 1984. Isolation of *Aeromonas hydrophila* from a metropolitan water supply: seasonal correlation with clinical isolates. *Applied and Environmental Microbiology* 48: 361-366.

Butler, D. A., Lobregat, C. M. & Gavan, T. L. 1975. Reproducibility of the Analytab (API 20E) System. *Journal of Clinical Microbiology* 2 (4): 322-326.

Cahill, M. M. & MacRae, I. C. 1992. Characteristics of 0/129-sensitive motile *Aeromonas* strains isolated from freshwater on starch-ampicillin agar. *Microbial Ecology* 24 (2): 215- 226.

Cajee, L. 2018. Physical aspects of the Darjeeling Himalaya: Understanding from a geographical perspective. *IOSR journal of Humanities and Social Science* 23 (3): 66-79.

Calderon, C. B. & Sabundayo, B. P. 2007. Antimicrobial classifications: Drugs for bugs. In: Schwalbe R, Steele-Moore L & Goodwin AC (eds). Antimicrobial susceptibility testing protocols. CRC Press, Taylor and Frances group. ISBN 978-0-8247-4100-6.

Campos, J., Goldberg, B., Sadzewicz, L., Tallon, L. J., Nagaraj, S., Vavikolanu, K., Aluvathingal, J., Nadendla, S., Sengamalay, N., Nandy, P., Hobson, J. & Sichtig, H. 2017. GenBank Data. Accession number JTBH02000001.

Carnahan, A. M. 1993. *Aeromonas* taxonomy: a sea of change. 4th International Workshop on *Aeromonas/Plesiomonas*, Atlanta, GA. *Medical Microbiology Letters* 2: 206–211.

Carnahan, A. M., Chakraborty, T., Fanning, G. R, Verma, D., Ali, A., Janda, J. M. & Joseph, S. W. 1991. *Aeromonas trota sp.* nov., an ampicilin-susceptible species isolated from clinical specimens. *Journal of Clinical Microbiology* 29: 1206–1210.

Carson, J., Wagner, T., Wilson, T. & Donachie, L. 2001. Miniaturized tests for computer-assisted identification of motile *Aeromonas* species with an improved probability matrix. *Journal of Applied Microbiology* 90: 190-200.

Cascon, A., Anguita, J., Hernanz, C., Sanchez, M., Fernandez, M. and Naharro, G. 1996. Identification of *Aeromonas hydrophila* Hybridization group 1 by PCR assays. *Applied and Environmental Microbiology* 62 (4): 1167-1170.

Cascon, A., Yugueros, J., Temprano, A., Sanchez, M., Hernanz, C., Luengo, J. M. & Naharro, G. 2000. A major secreted elastase is essential for pathogenicity of *Aeromonas hydrophila. Infection and Immunity* 68:3233-3241.

Castillo, C. S. D., Hikima, J. I., Jang, H. B., Nho, S. W., Jung, T. S., Wongtavatchai, J., Kondo, H., Hirono, I., Takeyama, H. & Aoki, T. 2012. Comparative sequence analysis of a multidrug-resistant plasmid from *Aeromonas hydrophila. Antimicrobial Agents and Chemotherapy* 57 (1): 120-129.

Cattoir, V., Poirel, L., Aubert, C., Soussy, C. J. & Nordmann, P. 2008. Unexpected occurrence of plasmid-mediated quinolone resistance determinants in environmental *Aeromonas spp*. *Emerging Infectious Diseases* 14 (2): 231-237.

Cavalier-Smith, T. 2002. The neomuran origin of archaebacteria, the negibacterial root of the universal tree and bacterial megaclassification. *International Journal of Systematic and Evolutionary Microbiology* 52: 7-76.

Cavari, B. Z., Allen, D. A. & Colwell, R. R. 1981. Effect of temperature on growth and activity of *Aeromonas spp*. and mixed bacterial populations in the Anacostia river. *Applied and Environmental Microbiology* 41(4): 1052-1054.

Chakraborty, A. K., Poira, K., Saha, D., Halder, C., Das, S. & Nandi, S. K. 2018. Multidrug-resistant bacteria with activated and diversified MDR genes in Kolkata water: Ganga Action Plan and heterogeneous phyto- antibiotics tackling superbug spread in India. *American Journal of Drug Delivery and Therapeutics* 5 (1:2): 1- 9.

Chakraborty, R., Kumar, A., Bhowal, S. S., Mandal, A. K., Tiwary, B. K. & Mukherjee, S. 2013. Diverse gene cassettes in class 1 integrons of facultative oligotrophic bacteria of river Mahananda, West Bengal, India. *PLOS One* 8 (8): 1- 13.

Chakraborty, T., Huhle, B., Bergbaur, H. & Goebel, W. 1986. Cloning, expression, and mapping of the *Aeromonas hydrophila* aerolysin gene

determinant in *Escherichia coli* K-12. *Journal of Bacteriology* 167: 368–374.

Champsaur, H., Adremont, A., Mathieu, D., Rottman, E., & Auzepy, P. 1982. Cholera-like illness due to *Aeromonas sobria*. *Journal of Infectious Diseases* 145:248-254.

Chan, F. K. L., Ching, J. Y. L., Ling, T. K. W., Chung, S. C. S. & Sung, J. J. Y. 2000. *Aeromonas* infection in acute suppurative cholangitis: review of 30 cases. *Journal of Infection* 40:69–73.

Chan, S. S. W., Ng, K. C., Lyon, D. J., Cheung, W. L., Cheng, A. F. B. & Rainer, T. H. 2003. Acute bacterial gastroenteritis: a study of adult patients with positive stool cultures treated in the emergency department. *Emergency Medicine Journal* 20:335–338.

Chandel, K., Mendki, M. J., Parikh, R. Y., Kulkarni, G., Tikar, S. N., Sukumaran, D., Prakash, S., Parashar, B. D., Shouche, Y. S. & Veer, V. 2013. Midgut microbial community of *Culex quinquefasciatus* mosquito populations from India. *PLOS One* 8 (11): 1-8.

Chang, B. J. & Bolton, S. M. 1987. Plasmids and resistance to antimicrobial agents in *Aeromonas sobria* and *Aeromonas hydrophila* clinical isolates. *Antimicrobial Agents and Chemotherapy* 31 (8): 1281-1282.

Chaudhury, A., Nath, G., Shukla, B. N. & Sanyal, S. C. 1996. Biochemical characterisation, enteropathogenicity and antimicrobial resistance plasmids of clinical and environmental *Aerornonas* isolates. *Journal of Medical Microbiology* 44: 434-437.

Chen, F., Sun, J., Han, Z., Yang, X., Xian, J., Lv, A., Hu, X. and Shi, H. 2019. Isolation, identification and characteristics of *Aeromonas veronii* from diseased crucian carp (*Carassius auratus gibelio*). *Frontiers in Microbiology* 10: 1- 10.

Choi, J. P., Lee, S. O., Kwon, H. H., Kwak, Y. G., Choi, S. H., Lim, S. K., Kim, M. N., Jeong, J. Y., Choi, S. H., Woo, J. H. & Kim, Y. S. 2008. Clinical significance of spontaneous *Aeromonas* bacterial peritonitis in cirrhotic patients: a matched case-control study. *Clinical Infectious Diseases* 47:66–72.

Chopra, A. K. & Houston, C. W. 1999. Enterotoxins in *Aeromonas*-associated gastroenteritis. *Microbes and Infection* 1: 1129–1137.

Chopra, A. K., Pham, R. & Houston, C.W. 1994. Cloning and expression of putative cytotonic enterotoxin-encoding genes from *Aeromonas hydrophila*. *Gene* 139: 87–91.

Clardy, **J., Fischbach, M. & Currie, C. 2009.** The natural history of antibiotics. *Current Biology* 19 (11): 437- 441.

Collins, M. D., Martinez-Murcia, A. J. & Cai, J. 1993. *Aeromonas enteropelogenes* and *Aeromonas ichthiosmia* are identical to *Aeromonas trota* and *Aeromonas veronii*, respectively, as revealed by small-subunit rRNA sequence analysis. *International Journal of Systematic Bacteriology* 43: 855–856.

Colwell, R. R., MacDonell, M. T. & Ley, J. D. 1986. Proposal to recognize the family *Aeromonadaceae* fam. nov. *International Journal of Systematic Bacteriology* 36 (3): 473-477.

Cook, M., Molto, E., & Anderson, C. 1989. Fluorochrome labelling in Roman period skeletons from Dakhleh Oasis, Egypt. *American Journal of Physical Anthropology* 80: 137–143.

Cornaglia, G. 2009. Fighting infections due to multidrug-resistant Gram-positive pathogens. *Clinical Microbiology and Infection* 15 (3): 209-211.

Cowieson A. J. & Kluenter A. M. 2019. Contribution of exogenous enzymes to potentiate the removal of antibiotic growth promoters in poultry production. *Animal Feed Science and Technology* 250: 81- 92.

Cumberbatch, N., Gurwith, M. J., Langston, C., Sack, R. B. & Brunton, J. L. 1979. Cytotoxic enterotoxin produced by *Aeromonas hydrophila*: relationship of toxigenic isolates to diarrheal disease. *Infection and Immunity* 23 (3): 829-837.

Daily, O.P., Joseph, S. W., Coolbaugh, J. C., Walker, R. I., Merrell, B. R., Rollins, D. M., Seidler, R. J., Colwell, R. R. & Lissner, C. R. 1981. Association of *Aeromonas sobria* with human infection. *Journal of Clinical Microbiology* 13 (4): 769-777.

Dallal, M. M. S. & Moezardalan, K. 2004. *Aeromonas* spp associated with children's diarrhea in Tehran: a case control study. *Annals of Tropical Paediatrics* 24:45-51.

Das A., Vinayasree V., Santhosh C. R. & Hari S. S. 2012. Surveillance of *Aeromonas sobria* and *Aeromonas hydrophila* from commercial food stuffs and environmental sources. *Journal of Experimental Sciences* 3(9): 36-42.

Das, A., Saha, D. & Pal, J. 2009. Antimicrobial resistance and in vitro gene transfer in bacteria isolated from the ulcers of EUS- affected fish in India. *Letters in applied microbiology* 49: 497- 502.

Daughton, C. G. & Ternes, T. A. 1999. Pharmaceuticals and personal care products in the environment: agents of subtle change? *Environmental Health Perspectives*. 107 (6): 907–938.

David, S., Cohen, V., Reuter, S., Sheppard, A. E., Giani, T., Parkhill, J., Rossolini, G. M., Feil, E. J., Grundmann, H. & Aanensen, D. M. 2020. Integrated chromosomal and plasmid sequence analyses reveal diverse modes of carbapenemase gene spread among *Klebsiella pneumonia*. *Proceedimgs of the National Academy of Sciences of the United States of America* 117 (40): 25043-25054.

Deep, A., Chaudhary, U. & Gupta, V. 2011. Quorum sensing and bacterial pathogenicity: from molecules to disease. *Journal of Laboratory Physicians* 3 (1): 4 to 11.

Demarta, A., Kupfer, M., Riegel, P., Harf-Monteil, C., Tonolla, M., Peduzzi, R., Monera, A., Saavedra, M.J. & Martinez-Murcia, A. 2008. *Aeromonas tecta* sp. nov., isolated from clinical and environmental sources. *Systematic and Applied Microbiology* 31(4): 278– 286.

Demarta, A., Tonolla, M., Caminada, A. P., Ruggeri, N. & Peduzzi, R. 1999. Signature region within the 16S rDNA sequences of *Aeromonas popoffii*. *FEMS Microbiology Letters* 172: 239-246.

Deng, Y., Wu, Y., Jiang, L., Tan, A., Zhang, R. & Luo, L. 2016. Multi-drug resistance mediated by class 1 integrons in *Aeromonas* isolated from farmed freshwater animals. *Frontiers in Microbiology* 7: 1-7.

Devarajan, N., Laffite A., Mulaji C. K., Otamonga J. P., Mpiana P. T., Mubedi J. I., Prabakar K., Ibelings B. W. & Pote J. 2016. Occurrence of antibiotic resistance genes and bacterial markers in a tropical river receiving hospital and urban wastewaters. *PLOS One* 11 (2): e0149211

Dixon, B. 2008. Natural disaster microbiology. *Microbe* 3: 312- 313.

Djadid, N. D., Jazayeri, H., Raz, A., Favia, G., Ricci, I. & Zakeri, S. 2011. Identification of the midgut microbiota of *An. stephensi* and *An. maculipennis* for their application as a paratransgenic tool against malaria. *PLOS One* 6 (12): 1-7.

Doman, D. B., Golding, M. I., Goldberg, H. J. & Doyle, R. B. 1989. *Aeromonas hydrophila* colitis presenting as medically inflammatory bowel disease. *Animal Journal of Gastroenterology* 84:83–85.

Dorsch, M., Ashbolt, N. J., Cox P. T. & Goodman, A. E. 1994. Rapid identification of *Aeromonas* species using 16s rDNA targeted oligonucleotide primers: a molecular approach based on screening of environmental isolates. *Journal of Applied Bacteriology* 77: 722-726.

Doudier, B., Imbert, G., Vitton, V., Kahn, M. & La Scola, B. 2006. *Aeromonas* septicaemia: an uncommon complication following placement of transhepatic biliary drainage devices in Europe. *Journal of Hospital Infection* 62:115–116.

Dowson, C. G., Hutchison, A., Brannigan, J. A., George, R. C., Hansman, D., Liiares, J., Tomasz, A., Maynard-Smith, J. & Spratt, B. G. 1989. Horizontal transfer of penicillin-binding protein genes in penicillin-resistant clinical isolates of Streptococcus pneumonia. *Proceedings of the National Academy of Sciences USA* 86: 8842-8846.

Dwivedi, M., Mishra, A., Prasad, A., Azim, A., Singh, R.K., Baronia, A.K., Prasad, K.N. & Dwivedi, U.N. 2008. *Aeromonas caviae* septicemia in immunocompetent gastrointestinal carriers. *Brazilian Journal of Infectious Diseases* 12 (6): 547-548.

Earle, C. S., Quezel-Guerraz, N. M., Rojas, L. H., Cantos, A. S. & Alegria, J. G. 1997. Severe acute gastroenteritis due to *Aeromonas* in a patient colectomized for Crohn's disease (in Spanish). *Revista Espanola de Enfermedades Digestivas* 89:48-50.

Edberg, S. C., Browne, F. A. & Allen, M. J. 2007. Issues for microbial regulation: *Aeromonas* as a model. *Critical Reviews in Microbiology* 33:89–100.

Efstratiou, M. A., Bauntouni, M. & Kefalas, E. 2018. Spread of antibiotic resistance in aquatic environments: *E. coli* as a case study. *Proceedings* 2 (693): 1-7.

Ender, P. T., Dolan, M. J., Dolan, D., Farmer, J. C. & Melcher, G. P. 1996. Near-drowning-associated *Aeromonas* pneumonia. *The Journal of Emergency Medicine* 14:737–741.

Erova,T. E., Kosykh, V. G., Fadl, A. A., Sha,J., Horneman, A. J & Chopra, A. K. 2008. Cold shock exoribonuclease R (VacB) is involved in *Aeromonas hydrophila* pathogenesis. *Journal of Bacteriology* 190: 3467–3474.

Essers, B., Burnens, A. P., Lanfranchini, F. M., Somaruga, S. G. E., Von Vigier, R. O., Schaad, U. B., Aebi, C. & Bianchetti, M. G. 2000. Acute community- acquired diarrhea requiring hospital admission in Swiss children. *Clinical Infectious Diseases* 30:192–196.

Esteve, C., Gutierrez, M. C. & Ventosa, A. 1995a. DNA relatedness among *Aeromonas allosaccharophila* strains and DNA hybridization groups of the genus *Aeromonas*. *International Journal of Systematic Bacteriology* 45: 390–391.

Esteve, C., Gutierrez, M. C. & Ventosa, A. 1995b. *Aeromonas encheleia sp*. nov., isolated from European eels. *International Journal of Systematic Bacteriology* 45: 462–466.

Etebu, E. & Arikekpar, I. 2016. Antibiotics: Classification and mechanisms of action with emphasis on molecular perspectives. *International Journal of Applied Microbiology and Biotechnology Research* 4: 90- 101.

Falgenhauer, L., Schwengers, O., Schmiedel, J., Baars, C., Lambrecht, O., Heb, S., Berendonk, T. U., Falgenhauer, J., Chakraborty, T. & Imirzalioglu, C. 2019. Multidrug-resistant and clinically relevant Gram-negative bacteria are present in German surface waters. *Frontiers in Microbiology* 10: 1-11.

Farfan, M., Spataro, N., Sanglas, A., Albarral, V., Loren, J. G., Bosch, E. & Fustea, M. C. 2013. Draft genome sequence of the *Aeromonas diversa* type strain. *Genome Announcements* 1 (3): 1- 2.

Fatlawy, H. N. K., Aldahhan, H. A. & Alsaadi, A. H. 2016. GenBank Data. Accession number LC201807.

Fenollar, F., Fournier, P. E. & Legre, R. 1999. Unusual case of *Aeromonas sobria* cellulitis associated with the use of leeches. *European Journal of Clinical Microbiology and Infectious Diseases* 18:72–73.

Figueras, M. J. 2005. Clinical relevance of *Aeromonas* sM503. *Reviews in Medical Microbiol*ogy 16:145–153.

Figueras, M. J., Alperi, A., Beaz-Hidalgo, R., Stackebrandt, E., Brambilla, E., Monera, A. & Martinez-Murcia, A. J. 2011. *Aeromonas rivuli* sp. nov., isolated from the upstream region of a karst water rivulet. *International Journal of Systematic and Evolutionary Microbiology* 61: 242- 248.

Figueras, M. J., Latif-Eugenin, F., Ballester, F., Pujol, I., Tena, D., Berg, K., Hossain, M. J., Beaz-Hidalgo, R. and Liles, M. R. 2017. '*Aeromonas intestinalis*' and '*Aeromonas enterica*' isolated from human faeces, '*Aeromonas crassostreae*' from oyster and '*Aeromonas aquatilis*' isolated from lake water represent novel species. *New Microbes and New Infections* 15: 74–76.

Figueras, M. J., Soler, L., Chacon, M. R., Guarro, J. & Martinez- Murcia, A. J. 2000. Extended method for discrimination of *Aeromonas spp*. by 16S rDNA RFLP analysis *International Journal of Systematic and Evolutionary Microbiology* 50: 2069–2073.

Fiorentini, C., Barbieri, E., Falzano, L., Baffone, W., Pianetti, A., Katouli, M., Kuhn, I., Mollby, R., Bruscolini, F., Casiere, A. & Donelli, G. 1998. Occurrence, diversity and pathogenicity of mesophilic *Aeromonas* in estuarine waters of the Italian coast of the Adriatic Sea. *Journal of Applied Microbiology* 85:501–511.

Fosse, T., Giraud-Morin, C., Madinier, I. & Labia, R. 2003. Sequence analysis and biochemical characterization of chromosomal CAV-1 (*Aeromonas caviae*), the parental cephalosporinase of plasmid-mediated AmpC 'FOX' cluster. *FEMS Microbiology Letters* 222:93–98.

Frank, U. & Tacconelli, E. 2012. The Daschner Guide to In-Hopsital Antibiotic Therapy. European standards. Available online at: http://www.springer.com/978-3-642-18401-7. 300p.

Freitas, M. R., Freire, N. B., Peixoto, L. J. S., Oliveira, S. T. L. D., Souza, R. C. D., Gouveia, J. J. D. S., Costa, M. M. D. & Gouveia, G. V. 2018. The presence of plasmids in *Aeromonas hydrophila* and its relationship with antimicrobial and heavy metal resistance profiles. *Ciencia Rural* 48 (9): 1-6.

Gadgil, A. 1998. Drinking water in developing countries. *Annual Review of Energy and Environment* 23: 253-286.

Gallani, S. U., Valladao, G., Assane, I. M., Alves, L. O., Kotzent, S., Hashimoto, D. T. & Pilarski, F. 2020. GenBank Data. Accession Number MT409620.

Garrity, G. M., Bell, J. A., & Lilburn, T. 2005. Phylum XIV. Proteobacteria phyl. nov. In: D. J. Brenner, N. R. Krieg, J. T. Staley and G. M. Garrity (eds.), Bergeys Manual of Systematic Bacteriology, second edition, vol. 2 (The Proteobacteria), part B (The Gammaproteobacteria), Springer, New York, p. 1.

Gavin, R., Merino, S., Altarriba, M., Canals, R., Shaw, J. G. & Tomas, J. M. 2003. Lateral flagella are required for increased cell adherence, invasion and biofilm formation by *Aeromonas spp. FEMS Microbiology Letters* 224:77–83.

Ghenghesh, K. S., Bara, F., Bukris, B., El-Surmani, A. & Abeid, S. S. 1999. Characterization of virulence factors of *Aeromonas* isolated from children with and without diarrhea in Tripoli, Libya. *Journal of Diarrheal Diseases Research* 17:75-80.

Ghosh K. & Mandal S. 2010. Antibiotic resistant bacteria in consumable fishes from Digha coast, West Bengal, India. *Proceedings of the Zoological Society* 63 (1): 13- 20.

Gordon L., Giraud E., Ganiere J. P., Armand F., Bouja-Albert A., Cotte N. de la., Mangion C. & Bris H. L. 2007. Antimicrobial resistance survey in a river receiving effluents from freshwater fish farms. *Journal of Applied Microbiology* 102 (4): 1167-1176.

Gosling, P. J. 1996. *Aeromonas* species in disease of animals, p. 175–195. In B. Austin, M. Altwegg, P. J. Gosling, and S. Joseph (ed.), The genus *Aeromonas*. John Wiley & Sons Ltd., West Sussex, England.

Goswami, C., Fox, S., Holden, M. T. G., Connor, M., Leanord, A. & Evans, T. J. 2020. Origin, maintenance and spread of antibiotic resistance genes within plasmids and chromosomes of bloodstream isolates of *Escherichia coli. Microbial Genomics* 6: 1-17.

Goswami, K., Majumdar, I. & Das, D. 2018. Water quality and the fate of aquatic life in Torsa river, North Bengal, India: an analytical study. *Journal of Environment and Life Sciences* 3 (3): 25- 31.

Green, M. R. & Sambrook, J. 2017. Precipitation of DNA with Isopropanol. Cold Spring Harb Protoc; doi:10.1101/pdb.prot093385. p. 673- 675.

Hall, T. A. 1999. Bioedit: A user- friendly biological sequence alignment editor and analysis program for windows 95/98 NT. *Nucleic Acids Symposium Series* 41: 95- 98.

Han, J. E., Kim, J. H., Choresca, C. H. Jr., Shin, S. P., Jun, J. W., Chai, J. Y. & Park, S. C. 2012. First description of ColE-type plasmid in *Aeromonas spp*. carrying quinolone resistance (qnrS2) gene. *Letters in Applied Microbiology* 55: 290-294.

Handfield, M., Simard, P., Couillard, M. & Letarte, R. 1996. *Aeromonas hydrophila* isolated from food and drinking water: hemagglutination, hemolysis, and cytotoxicity for a human intestinal cell line (HT-29). *Applied and Environmental Microbiology* 62: 3459– 3461.

Harf-Monteil, C., Fleche, A. L., Riegel, P., Prevost, G., Bermond, D., Grimont, P. A. D. & Monteil, H. 2004. *Aeromonas simiae* sp. nov., isolated from monkey faeces. *International Journal Systematic and Evolutionary Microbiology* 54 (2): 481–485.

Havelaar, A. H., During, M. & Versteegh, J. F. 1987. Ampicillin-dextrin agar medium for the enumeration of *Aeromonas* species in water by membrane filtration. *Journal of Applied Bacteriology* 62 (3): 279-287.

Hazen, T. C. & Fliermans, C. B. 1979. Distribution of *Aeromonas hydrophila* in natural and man-made thermal effluents. *Applied and Environmental Microbiology* 38:166–168.

Hazen, T. C., Fliermans, C. B., Hirsch, R. P. & Esch, G. W. 1978. Prevalence and Distribution of *Aeromonas hydrophila* in the United States. *Applied and Environmental Microbiology* 36 (5): 731-738.

Heap, J. T., Ehsaan, M., Cooksley, C. M., Ng, Y. K., Cartman, S. T., Winzer, K. & Minton, N. P. 2012. Integration of DNA into bacterial chromosomes from plasmids without a counter-selection marker. *Nucleic Acids Research* 40 (8): 1-10.

Heuzenroeder, M. W., Wong, C. Y. F. & Flower, R. L. P. 1999. Distribution of two hemolytic toxin genes in clinical and environmental isolates of *Aeromonas spp.:* correlation with virulence in a suckling mouse model. *FEMS Microbiology Letters* 174:131–136.

Hickman-Brenner, F. W., Fanning, G. R., Arduino, M. J., Brenner, D. J. & Farmer, J. J. III. 1988. *Aeromonas schubertii*, a new mannitol negative

species found in human clinical specimens. *Journal of Clinical Microbiology* 26: 1561–1564.

Hickman-Brenner, F. W., MacDonald, K. L., Steigerwalt, A. G., Fanning, G. R., Brenner, D. J. & Farmer, J. J. III. 1987. *Aeromonas veronii*, a new ornithine decarboxlase-positive species that may cause diarrhea. *Journal of Clinical Microbiology* 25: 900–906.

Hirono, I. & Aoki, T. 1991. Nucleotide sequence and expression of an extracellular hemolysin gene of *Aeromonas hydrophila*. *Microbial Pathogenesis* 11: 189–197.

Holmberg, S. D. & Farmer, J. J. III. 1984. *Aeromonas hydrophila* and *Plesiomonas shigelloides* as causes of intestinal infection. *Reviews of Infectious Diseases* 6:633–639.

Hondur, A., Bilgihan, K., Clark, M. Y., Dogan, O., Erdinc, A. & Hasanreisoglu, B. 2008. Microbiologic study of soft contact lenses after laser subepithelial keratectomy for myopia. *Eye Contact Lens* 34:24–27.

Hossain, M. 2008. Isolation of pathogenic bacteria from the skin ulcerous symptomatic gourami (Colisalalia) through 16S rDNA analysis. *University Journal of Zoology, Rajshahi University* 27: 21-24.

Hossain, S., Dahanayake, P. S., De Silva, B. C. J., Wikramanayake, M. V. K. S., Wimalasena, S. H. M. P. & Heo, G. J. 2019. Multidrug resistant *Aeromonas* spp. isolated from zebrafish (*Danio rerio*): antibiogram, antimicrobial resistance genes and class 1 integron gene cassettes. *Letters in Applied Microbiology* 68 (5): 370-377.

Howard, S. P., Garland, W. J., Green, M. J. & Buckley, J. T. 1987. Nucleotide sequence of the gene for the hole-forming toxin aerolysin of *Aeromonas hydrophila*. *Journal of Bacteriology* 169: 2869–2871.

Hsueh, P. R., Teng, L. J., Lee, L. N., Yang, P. C., Chen, Y. C, Ho, S. W & Luh, K. T. 1998. Indwelling device-related and recurrent infections due to *Aeromonas species. Clinical Infectious Diseases* 26:651–658.

Hu, X., Yu, X., Shang, Y., Xu, H., Guo, L., Liang, Y., Kang, Y., Song, L., Sun, J., Yue, F., Mao, Y. & Zheng, B. 2019. Emergence and characterization of a novel IncP-6 plasmid harboring blaKPC-2 and qnrS2 genes in *Aeromonas taiwanensis* isolates. *Frontiers in Microbiology* 10 (2132): 1-7.

Hua, H. T., Bollet, C., Tercian, S., Drancourt, M. & Raoult, D. 2004. *Aeromonas popoffii* urinary tract infection. *Journal of Clinical Microbiology* 42:5427–5428.

Huang, H. C., Yu, W. L, Huan, K. H., Cheng, K. C. & Chuang, Y. C. 2007. *Aeromonas sobria* prostatitis and septic shock in a healthy man with chronic alcoholic consumption. *Japanese Journal of Infectious Diseases* 60:400–401.

Huang, L. J., Chen, H. P., Chen, T. L., Siu, L. K., Fung, C. P., Lee, F. Y. & Liu, C. Y. 2006. Secondary *Aeromonas* peritonitis is associated with polymicrobial ascites culture and absence of liver cirrhosis compared to primary *Aeromonas* peritonitis. *Acta Pathologica, Microbiologica, et Immunologica Scandinavica* 114:772–778.

Hunter, W. J. & Kuykendall, L. D. 2006. Identification and characterization of an *Aeromonas salmonicida* (syn *Haemophilus piscium*) strain that reduces selenite to elemental red selenium. *Current Microbiology* 52: 305- 309.

Huys, G., Coopman, R., Janssen, P. & Kersters, K. 1996. High resolution genotypic analysis of the genus *Aeromonas* by AFLP fingerprinting. *International Journal of Systematic Bacteriology* 46: 572–580.

Huys, G., Kampfer, P. & Swings, J. 2001. New DNA-DNA hybridization and phenotypic data on the species *Aeromonas ichthiosmia* and *Aeromonas allosaccharophila*: *A. ichthiosmia* Schubert et al. 1990 is a later synonym of *A. veronii* Hickman- Brenner et al. 1987. *Systematic and Applied Microbiology* 24: 177–182.

Huys, G., Kampfer, P., Altwegg, M., Kersters, I., Lamb, A., Coopman, R., Luthy-Hottenstein, J., Vankennyet, M., Janssen, P. and Kersters, K. 1997. *Aeromonas popoffii* sp. nov., a mesophilic bacterium isolated from drinking water production plants and reservoirs. *International Journal of Systematic Bacteriology* 47 (4): 1165-1171.

Huys, G., Vancanneyt, M., Coopman, R., Janssen, P., Falsen, E., Altwegg, M. & Kersters, K. 1994. Cellular fatty acid composition as a chemotaxonomic marker for the differentiation of phenospecies and hybridization groups in the genus *Aeromonas*. *International Journal of Systematic Bacteriology* 44 (4):651- 658.

Ibrahim, M. B., Kinsara, A. J., Hussein, B. T. A., Osoba, A. O. 1996. Chronic colitis after *Aeromonas hydrophila* infection. *Annals of Saudi Medicine* 16:674-6.

ICMSF. 1996. Microorganisms in Foods 5: Microbiological specifications of pathogens. International Commission on Microbiological Specifications for Foods. Blackie Academic & Professional, an imprint of Chapman & Hall, New York.

Igbinosa, I. H. & Okoh, A. I. 2012. Antibiotic susceptibility profile of *Aeromonas* species isolated from wastewater treatment plant. *The Scientific World Journal* 2012: 1-6.

Isonhood, J. H. & Drake, M. 2002. *Aeromonas* species in foods. *Journal of Food Protection* 65:575–582.

Janda, J. L. & Abbott, S. L. 2010. The genus *Aeromonas*: taxonomy, pathogenicity and infection. *Clinical Microbiology Reviews* 23 (1): 35-73.

Janda, J. M & Abbott, S. L. 1996. Human pathogens. In: Austin B *et al*., ed. The genus *Aeromonas*. London, Wiley. P. 151–173.

Janda, J. M & Abbott, S. L. 1998. Evolving concepts regarding the genus *Aeromonas*: an expanding panorama of species, disease presentation, and unanswered questions. *Clinical Infectious Diseases* 27:332–344.

Janda, J. M. & Duffey, P. S. 1988. Mesophilic aeromonads in human disease: current taxonomy, laboratory identification, and infectious disease spectrum. *Reviews in Infectious Diseases* 10:980–987.

Janda, J. M. 1985. Biochemical and exoenzymatic properties of *Aeromonas species*. *Diagnostic Microbiology and Infectious Diseases* 3:223–232.

Janda, J. M. 2001. Chapter 59. *Aeromonas* and *Plesiomonas* In M. Sussman (ed.), Molecular medical microbiology, vol. 2. Academic Press, London, United Kingdom. p. 1237–1270.

Janda, J. M., Guthertz, L. S., Kokka, R. P. & Shimada, T. 1994. *Aeromonas* species in septicemia: laboratory characteristics and clinical observations. *Clinical Infectious Diseases* 19:77–83.

Jangid, K., Kong, R., Patole, M. S. & Shouche, Y. S. 2007. *luxRI* homologs are universally present in the genus *Aeromonas. BMC Microbiology* 7:93.

Jones, J. G., Gardener, S., Simon, B. M. & Pickup, R. W. 1986. Antibiotic resistant bacteria in Windermere and two remote upland tarns in the English Lake District. *Journal of Applied Bacteriology* 60: 443-453.

Jorgensen, J. H. & Hindler, J. F. 2007. New consensus guidelines from the Clinical and Laboratory Standards Institute for antimicrobial susceptibility testing of infrequently isolated or fastidious bacteria. *Clinical Infectious Diseases* 44:280–286.

Joseph, S. W. & Carnahan, A. 1994. The isolation, identification, and systematics of the motile *Aeromonas species. Annual Review of Fish Diseases* 4:315–343.

Joseph, S. W. & Carnahan, A. M. 2000. Update on the genus *Aeromonas*. *The American Society for Microbiology News* 66: 218–223.

Kampfer, P., Christmann, C., Swings, J. & Huys, G. 1999. In vitro susceptibilities of *Aeromonas* genomic species to 69 antimicrobial agents. *Systematic and Applied Microbiology* 22:662–669.

Karem, K. L., Foster, J. W. & Bej, A. K. 1994. Adaptive acid tolerance (ATR) in *Aeromonas hydrophila. Microbiology* 140:1731–1736.

Kaskhedikar, M. & Chhabra, D. 2010. Multiple drug resistance in *Aeromonas hydrophila* of fish. *Veterinary World* 3 (2): 76-77.

Kelly, K. A., Koehler, J. M. & Ashdown, L. R. 1993. Spectrum of extraintestinal disease due to *Aeromonas* species in tropical Queensland, Australia. *Clinical Infectious Diseases* 16:574-9.

Khan F. 2018. Antibiotics classification and visual target sites for bacterial inhibition. *Advances in Pharmacology and Clinical Trials* 3 (3): 1-3.

Khan, A. A. & Cerniglia, C. E. 1997. Rapid and sensitive method for the detection of *Aeromonas caviae* and *Aeromonas trota* by polymerase chain reaction. *Letters Applied Microbiology* 24: 233–239.

Khardori, N. & Fainstein, V. 1988. *Aeromonas* and *Plesiomonas* as etiological agents. *Annual Review of Microbiology* 42:395–419.

Kienzle, N., Muller, M. & Pegg, S. 2000. *Aeromonas* wound infections in burns. *Burns* 26:478–482.

Kim, B., Pang, H. B., Kang, J., Park, J. H., Ruoslahti, E. & Sailor, M. J., 2018. Immunogene therapy with fusogenic nanoparticles modulates macrophage

response to *Staphylococcus aureus*. *Nature Communications* 9 (1969): 1-13.

Kim, D. W., Thawng, C. N., Lee, S. H. & Cha, C. J. 2017. Unique features of *Aeromonas* plasmid pAC3 and expression of the plasmid- mediated quinolone resistance genes. *Applied and Environmental Science* 2 (3): 1-11.

Kimura, M. 1980. A simple method for estimating evolutionary rate of base substitutions through comparative studies of nucleotide sequences. *Journal of Molecular Evolution* 16:111-120.

Kingombe, C. I. B., Huys, G., Tonolla, M., Albert, M. J., Swings, J., Peduzzi, R. & Jemmi, T. 1999. PCR detection, characterization, and distribution of virulence genes in *Aeromonas* spp. *Applied and Environmental Microbiology* 65: 5293-5302.

Kirov, S. M., Barnett, T. C., Pepe, C. M., Strom, M. S. & Albert, M. J. 2000. Investigation of the role of type IV *Aeromonas* pilus (Tap) in the pathogenesis of *Aeromonas* gastrointestinal infection. *Infection and Immunity* 68:4040–4048.

Kirov, S. M., Tassell, B. C., Semmler, A. B. T., O'Donovan, L. A., Rabaan, A. A. & Shaw, J. G. 2002. Lateral flagella and swarming motility in *Aeromonas species*. *Journal of Bacteriology* 184:547–555.

Kivanc, M., Yilmaz, M. & Demir, F. 2011. The occurrence of *Aeromonas* in drinking water, tap water and the Porsuk river. *Brazilian Journal of Microbiology* 42: 126-131.

Ko, W. C., Lee, H. C., Chuang, Y. C., Liu, C. C. & Wu, J. J. 2000. Clinical features and therapeutic implications of 104 episodes of monomicrobial *Aeromonas* bacteraemia. *Journal of Infection* 40:267–273.

Kouyos, R. D., Wiesch, P. A. Z. & Bonhoeffer, S. 2011. On being the right size: The impact of population size and stochastic effects on the evolution of drug resistance in hospitals and the community. *PLOS Pathogens* 7(4): 1-11.

Kozaki, S., Asao, T., Kamata, Y. & Sakaguchi, G. 1989. Characterization of *Aeromonas sobria* hemolysin by use of monoclonal antibodies against *Aeromonas hydrophila* hemolysins. *Journal of Clinical Microbiology* 27: 1782–1786.

Kozinska, A., Figueras, M. J., Chacon, M. R. & Soler L. 2002. Phenotypic characteristics and pathogenicity of *Aeromonas* genomospecies isolated from common Carp (*Cyprinus carpio* L.). *Journal of Applied Microbiology* 93: 1034–1041.

Kozlova, E. V., Popov, V. L., Sha, J., Foltz, S. M., Erova, T. E., Agar, S. L., Horneman, A. J. & Chopra, A. K. 2008. Mutation in the S-ribosylhomocysteinase (luxS) gene involved in quorum sensing affects biofilm formation and virulence in a clinical isolate of *Aeromonas hydrophila. Microbial Pathogenesis* 45:343–354.

Krzyminska, S., Kaznowski, A. & Puk, M. 2008. Interaction of *Aeromonas* spp. human isolates with murine macrophages. *New Microbiologica* 31:481–488.

Kuhn, I., Albert, M. J., Ansaruzzaman, M., Bhuiyan, N. A., Alabi, S. A., Islam, M. S., Neogi, P. K. B., Huys, G., Janssen, P., Kersters, K. & Mollby, R. 1997a. Characterization of *Aeromonas spp*. isolated from humans with diarrhea, from healthy controls, and from surface water in Bangladesh. *Journal of Clinical Microbiology* 35 (2): 369- 373.

Kuhn, I., Allestam, G., Huys, G., Janssen, P., Kersters, K., Krovacek, K. & Stenström, T. A. 1997b. Diversity, persistence, and virulence of *Aeromonas* strains isolated from drinking water distribution systems in Sweden. *Applied and Environmental Microbiology* 63:2708–2715

Kuijper, E. J., Steigerwalt, A. G., Schoenmakers, B. S. C. I. M., Peeters, M. F., Zanen, H. C. & Brenner, D. J. 1989. Phenotypic characterization and DNA relatedness in human fecal isolates of *Aeromonas spp*. *Journal of Clinical Microbiology* 27: 132–138.

Kumar, A., Bachhil, V. N., Bhilegaonakar, K. N. & Agarwal, R. K. 2000. Occurrence of enterotoxigenic *Aeromnas* species in foods. *Journal of Communicable Disease*. 32: 169-74.

Kumar, S., Stecher, G., Li, M., Knyaz, C. & Tamura, K. 2018. MEGA X: Molecular evolutionary genetics analysis across computing platforms. *Molecular Biology and Evolution* 35:1547-1549.

Kumarasamy, K. K., Toleman, M. A., Walsh, T. R., Bagaria, J., Butt, F., Balakrishnan, R., Chaudhary, U., Doumith, M., Giske, C. G., Irfan, S., Krishnan, P., Kumar, A. V., Maharjan, S., Mushtaq, S., Noorie, T.,

Paterson, D. L., Pearson, A., Perry, C., Pike, R., Rao, B., Ray, U., Sarma, J. B., Sharma, M., Sheridan, E., Thirunarayan, M. A., Turton, J., Upadhyay, S., Warner, M., Welfare, W., Livermore, D. M. & Woodford, N. 2010. Emergence of a new antibiotic resistance mechanism in India, Pakistan, and the UK: a molecular, biological, and epidemiological study. *The Lancet Infectious Diseases* 10 (9): 597- 602.

Kunimoto, D., Rennie, R., Citron, D. M. & Goldstein, E. J. C. 2004. Bacteriology of a bear bite wound to a human: case report. *Journal of Clinical Microbiology* 42:3374–3376.

Kurenbatch, B., Marjoshi, D., Amabile-Cuevas, C. F., Ferguson, G. C., Godsoe, W., Gibson, P. & Heinemann, J. A. 2015. Sublethal exposure to commercial formulations of the herbicides dicamba, 2,4-Dichlorophenoxyacetic Acid, and glyphosate cause changes in antibiotic susceptibility in *Escherichia coli* and *Salmonella enterica* serovar Typhimurium. *mBio* 6 (2): 1-9.

Lai, C. C., Ding, L. W. & Hsueh, P. R. 2007. Wound infection and septic shock due to *Aeromonas trota* in a patient with liver disease. *Clinical Infectious Diseases* 44:1523–1524.

Lamy, B. & Kodjo, A. 2009. The colBVH study group, and F. Laurent. Prospective nationwide study of *Aeromonas* infections in France. *Journal of Clinical Microbiology* 47:1234–1237.

Leclerc, H., Schwartzbrod, L. & Dei-Cas, E. 2002. Microbial agents associated with waterborne diseases. *Critical Reviews in Microbiology* 28:371–409.

Lee, C., Cho, J. C., Lee, S. H., Lee, D. G. & Kim, S. J. 2002. Distribution of *Aeromonas spp*. As identified by 16S rDNA Restriction fragment length polymorphism analysis in a trout farm. *Journal of Applied Microbiology* 93: 976–985.

Lee, D. H. & Kim, S. J. 1996. Nonradioactive method to study genetic profiles of natural bacterial communities by PCR- single stranded conformation polymorphism. *Applied and Environmental Microbiology* 62 (9): 3112 – 3120.

Leung, H. W., Minh, T. B., Murphy, M. B., Lam, J. C., So, M. K., Martin, M., Lam, P. K. S. & Richardson B.J. 2012. Distribution, fate and risk

assessment of antibiotics in sewage treatment plants in Hong Kong, South China. *Environment International* 42: 1–9.

Libisch, B., Giske, C. G., Kovacs, B., Toth, T. G. & Fuzi, M. 2008. Identification of the first VIM metallo-β-lactamase-producing multiresistant *Aeromonas hydrophila* strain. *Journal of Clinical Microbiology* 46:1878–1880.

Livermore, D. M. 2009. Has the era of untreatable infections arrived? *Journal of Antimicrobial Chemotherapy* 64 (1): 29- 36.

Llopis, F., Grau, L., Tubau, F., Cisnal, M. & Pallares, R. 2004. Epidemiological and clinical characteristics of bacteraemia caused by *Aeromonas* spp. as compared with *Escherichia coli* and *Pseudomonas aeruginosa. Scandinavian Journal of Infectious Diseases* 36:335–341.

Lynch, M. J., Swift, S., Kirke, D. F., Keevil, C. W., Dodd, C. E. R. & Williams, P. 2002. The regulation of biofilm development by quorum sensing *Aeromonas hydrophila*. *Environmental Microbiology* 4:18–28.

MacFadden, D. R., McGough, S. F., Fisman, D., Santillana, M. & Brownstein, J. S. 2018. Antibiotic resistance increases with local temperature. *Natural Climate Change* 8: 510-514.

Majumdar, T., Ghosh, D., Datta, S., Sahoo, C., Pal, J. & Mazumder, S. 2007. An attenuated plasmid-cured strain of *Aeromonas hydrophila* elicits protective immunity in *Clarias battrachus L. Fish and Shellfish Immunology* 23:222-230.

Majumdar, T., Ghosh, S., Pal, J. & Mazumder, A. 2006. Possible role of a plasmid in the pathogenesis of a fish disease caused by *Aeromonas hydrophila*. *Aquaculture* 256 (1-4): 95- 104.

Mandal, H. S. & Das, A. 2011. Assessment of seasonal variation in physico-chemical characteristics and quality of Torsha River water for irrigation used in Cooch Behar and Jalpaiguri districts of West Bengal, India. *Journal of Chemical and Pharmaceutical Research* 3 (6): 265- 270.

Mandal, H. S., Das, A. & Nanda, A. K. 2011. Monitoring water quality and pollution status of Kaljani river at Alipurduar municipality in Jalpaiguri district, West Bengal, India. *Advances in Applied Science Research* 2 (5): 158- 166.

Mandell, G. L. 1975. Catalase, superoxide dismutase, and virulence of *Staphylococcus aureus.* In vitro and in vivo studies with emphasis on

staphylococcal-leukocyte interaction. *The Journal of Clinical Investigation* 55: 561-566.

Marti, E. and Balcazar, J. L. 2015. *Aeromonas rivipollensis* sp. nov., a novel species isolated from aquatic samples. *Journal of Basic Microbiology* 55: 1435–1439.

Martıinez-Murcia, A. J., Esteve, C., Garay, E. & Collins, M. D. 1992b. *Aeromonas allosaccharophila* sp. nov., a new mesophilic member of the genus *Aeromonas*. *FEMS Microbiology Letters* 91: 199–205.

Martin-Carnahan, A. & Joseph, S. W. 2005. Genus I. *Aeromonas* Stanier 1943, 213AL, p. 557–578. In D. J. Brenner, N. R. Krieg, J. T. Staley, and G. M. Garrity (ed.), *Bergey's manual of systematic bacteriology*, 2nd ed., vol. 2, part B. Springer, New York.

Martinez-Murcia, A. J. 1999. Phylogenetic positions of *Aeromonas encheleia, Aeromonas popoffii, Aeromonas* DNA hybridization Group 11 and *Aeromonas* Group 501. *International Journal of Systematic Bacteriology* 49: 1403–1408.

Martinez-Murcia, A. J., Benlloch, S. & Collins, M. D. 1992a. Phylogenetic interrelationships of members of the genera *Aeromonas* and *Plesiomonas* as determined by 16s ribosomal DNA sequencing: Lack of congruence with results of DNA-DNA hybridizations. *International Journal of Systematic Bacteriology* 42 (3): 412-421.

Martinez-Murcia, A. J., Monera, A., Saavedra, M. J., Oncina, R., Lopez-Alvarez, M., Lara, E. & Figueras, M. J. 2011. Multilocus phylogenetic analysis of the genus *Aeromonas*. *Systematic and Applied Microbiology* 34: 189–199.

Martinez-Murcia, A. J., Saavedra, M. J., Mota, V. R. Maier, T., Stackebrandt, E. & Cousin, S. 2008. *Aeromonas aquariorum* sp. nov., isolated from aquaria of ornamental fish. *International Journal of Systematic and Evolutionary Microbiology* 58 (5): 1169–1175.

Martinez-Murcia, A., Beaz-Hidalgo, R., Navarro, A., Carvalho, M. J., Aravena-Roman, M., Correia, A., Figueras, M. J. Saavedra, M. J. 2016. *Aeromonas lusitana* sp. nov., isolated from untreated water and vegetables. *Current Microbiology* 72: 795- 803.

Martinez-Murcia, A., Beaz-Hidalgo, R., Svec, P., Saavedra, M. J., Figueras, M. J. and Sedlacek, I. 2013. *Aeromonas cavernicola* sp. nov., isolated from fresh water of a brook in a cavern. *Current Microbiology* 66: 197–204.

Martins, L. M., Catani, C. F., Falc´on, R. M., Carbonell, G. V., Azzoni, A. A. & Yano, T. 2007. Induction of apoptosis in vero cells by *Aeromonas veronii* biovar sobria vacuolating cytotoxic factor. *FEMS Immunology and Medical Microbiology* 49:197–204.

Massa, S., Altieri, C. & Angela, A. D. 2001. The occurrence of *Aeromonas* spp. in natural mineral water and well water. *International Journal of Food Microbiology* 63: 169–173.

McGough, S. F., MacFadden, D. R., Hattab, M. W., Molbak, K. & Santillana, M. 2020. Rates of increase of antibiotic resistance and ambient temperature in Europe: a cross-national analysis of 28 countries between 2000- 2016. *Eurosurveillance* 25 (45): 1-12.

McKeon, D. M., Calabrese, J. P. & Bissonnette, G. K. 1995. Antibiotic resistant gram-negative bacteria in rural groundwater supplies. *Water Research*. 29 (8):1902–1908.

McMahon, M. A. S. & Wilson, I. G. 2001. The occurrence of enteric pathogens and *Aeromonas* species in organic vegetables. *International Journal of Food Microbiology* 70:155–162.

McNikol, L. A., Aziz, K. M. S., Huq, I., Kaper, J. B., Lockman, H. A., Remmers, E. F., Spira, W. M., Voll, M. J. & Colwell, R. R. 1990. Isolation of drug-resistant *Aeromonas hydrophila* from aquatic environments. *Antimicrobial Agents and Chemotherapy* 17 (3): 477-483.

Melander, R. J., Minvielle, M. J. & Melander, C. 2014. Controlling bacterial behavior with indole-containing natural products and derivatives. *Tetrahedron* 70 (37): 6363-6372.

Mendez, J., Reimundo, P., Perez-Pascual, D., Navais, R., Gomez, E., Cascales, D. & Guijarro, J. A. 2012. An overview of virulence-associated factors of Gram-negative fish pathogenic bacteria. *Health and Environment in Aquaculture* 133-156.

Merino, S., Rubires, X., Aguilar, A., Albertí, S., Hernandez-Alles, S., Benedí, V. J. & Tomas, J. M. 1996. Mesophilic *Aeromonas sp*. serogroup O:11

resistance to complement-mediated killing. *Infection and Immununity* 64:5302–5309.

Miles, A. A. & Halnan, E. T. 1937. A new species of microorganisms (*Proteus melanovogenes*) causing black rot in eggs. *The Journal of Hygine* 37: 79-97.

Minana- Galbis, D., Farfan, M., Loren, J. G. & Fuste, M. C. 2002. Biochemical identification and numerical taxonomy of *Aeromonas spp*. isolated from environmental and clinical samples in Spain. *Journal of Applied Microbiology* 93: 420–430.

Minana-Galbis, D., Farfan, M., Fuste, M. C. & J. G. Loren. 2004. *Aeromonas molluscorum* sp. nov., isolated from bivalve molluscs. *International Journal of Systematic and Evolutionary Microbiology* 54(6): 2073- 2078.

Minana-Galbis, D., Farfan, M., Fuste, M. C. and Loren, J. G. 2007. *Aeromonas bivalvium* sp. nov., isolated from bivalve molluscs. *International Journal of Systematic and Evolutionary Microbiology* 57: 582–587.

Minana-Galbis, D., Farfan, M., Loren, J. G. and Fuste, M. C. 2010. Proposal to assign *Aeromonas diversa* sp. nov. As a novel species designation for *Aeromonas* group 501. *Systematic and Applied Microbiology* 33: 15–19.

Mishra, S. S. Chockalingam, A. K., Ramakrishnan, M. A., Phelps, N. B., Bhagyam, R., Sreevatsam, S. & Goyal, S. M. 2008. GenBank Data. Accession number EU932956.

Mishra, S. S., Rakesh, D., Dhiman, M., Choudhary, P., Debbarma, J., Sahoo, S. N. Barua, A., Giri, B. S., Ramesh, R., Ananda, K., Mishra C. K. & Swain, P. 2017. Present status of fish disease management in freshwater aquaculture in India: State-of-the-art-review. *HSOA Journal of Aquaculture and Fisheries* 1 (1): 1-9.

Moawad, M. R. & Zelderman, M. 2002. *Aeromonas hydrophila* wound infection in elective surgery. *Journal of Wound Care* 11:210–211.

Moellering, R. C. Jr. 2010. NDM-1--a cause for worldwide concern. *New England Journal of Medicine* 363 (25): 2377- 2379.

Molstad, S., Lundborg, C. S., Karlsson, A. K. & Cars, O. 2002. Antibiotic prescription rates vary markedly between 13 European countries. *Scandinavian Journal of Infectious Diseases* 34 (5): 366- 371.

Monaghan, S. F., Anjaria, D., Mohr, A. & Livingston, D. H. 2008. Nectrotizing fasciitis and sepsis caused by *Aeromonas hydrophila* after crush injury of the lower extremity. *Surgical Infections* 9:459–467.

Monette, S., Dallaire, A. D., Mingelbier, M., Groman, D., Uhland, C., Richard, J. P., Paillard, T G., Johannson, L. M., Chivers, D. P., Ferguson, H. W., Leighton, F. A. & Simko, E. 2006. Massive mortality of common carp (Cyprinus carpio carpio) in the St. Lawrence River in 2001: diagnostic investigation and experimental induction of lymphocytic encephalitis. *Veterinary Pathology* 43:302–310.

Morena, M. L. D. L., Van, R., Singh, K., Brian, M., Murray, B. E. & Pickering, L. K. 1993. Diarrhea Associated with *Aeromonas* species in children in day care centers. *The Journal of Infectious Diseases* 168(1): 215–218.

Moro, E. M. P., Weiss, R. D. N., Friedrich, A. R. S. C., Castagna, de Vargas., Weiss, L. H. N. & Nunes, M. P. 1999. *Aeromonas hydrophila* isolated from cases of bovine seminal vesiculitis in South Brazil. *Journal of Veterinary Diagnostic Investigation* 11:189–191.

Mozumder, M., Pramanik, S., Mandal, S. K. & Rohatgi, S. 2015. Assessment of water quality of river Mahananda, West Bengal, India. *International Journal of Multidisciplinary Research and Development* 2 (11): 22- 26.

Mukherjee, S. & Chakraborty, R. 2006. Incidence of class 1 integrons in multiple antibiotic-resistant Gram-negative copiotrophic bacteria from the river Torsa in India. *Research in Microbiology.* 157 (3): 220–226.

Mukhopadhyay, C., Bhargava, A. & Ayyagari, A. 2003. *Aeromonas hydrophila* and aspiration pneumonia: a diverse presentation. *Yonsei Medical Journal* 44:1087–1090.

Mukhopadhyay, C., Chawla, K., Sharma, Y. & Bairy, I. 2008. Emerging extra-intestinal infections with *Aeromonas hydrophila* in coastal region of Southern Karnataka. *Journal of Postgraduate Medicine* 54:199–202.

Murata, H., Yoshimoto, H., Masuo, M., Tokuda, H., Kitamura, S., Otsuka, Y. & Miura, Y. 2001. Fulminant pneumonia due to *Aeromonas hydrophila* in a man with chronic renal failure and liver cirrhosis. *Internal Medicine* 40:118–123.

Nadirah, K. P. D. & Salwany, M. Y. I. 2016. Molecular characterization of 16S rRNA and internal transcribed spacer (ITS) regions of *Aeromonas* spp.

isolated from cultured freshwater fishes in Malaysia. *International Journal of Current Microbiology and Applied Sciences* 5 (9): 431-440.

Nair, G. B. & Holmes, B. 1999. International Committee on Systematic Bacteriology Subcommittee on the Taxonomy of Vibrionaceae. Minutes of the closed meeting, 19 May 1998, Atlanta, GA, USA. *International Journal of Systematic Bacteriology* 49: 1945–1947.

Nakano, H., Kameyama, T., Venkateswaran, K., Kawamaki, H. & Hashimoto, H. 1990. Distribution and characterization of hemolytic and enteropathogenic motile *Aeromonas* in aquatic environment. *Microbiology and Immunology* 34: 447–458.

Natrah, F. M. I., Alam, M. I., Pawar, S., Harzevili, A. S., Nevejan, N., Boon, N., Sorgeloos, P., Bossier, P. & Defoirdt, T. 2012. The impact of quorum sensing on the virulence of *Aeromonas hydrophila* and *Aeromonas salmonicida* towards burbot (*Lota lota* L.) larvae. *Veterinary Microbiology* 159: 77- 82.

Nawaz, M., Sung, K., Khan, S. A., Khan, A. A. & Steele, R. 2006. Biochemical and molecular characterization of tetracycline-resistant *Aeromonas veronii* isolates from catfish. *Applied and Environmental Microbiology* 72 (10): 6461-6466.

Nelson, M. L., Dinardo, A., Hochberg, J., & Armelagos, G. J. 2010. Brief communication: mass spectroscopic characterization of tetracycline in the skeletal remains of an ancient population from Sudanese Nubia 350–550 CE. *American Journal of Physical Anthropology* 143: 151–154.

Neyts, K., Huys, G., Uyttendaele, M., Swings, J. & Debevere, J. 2000. Incidence and identification of mesophilic *Aeromonas* spp. from retail foods. *Letters in Applied Microbiology* 31:359–363.

Ngoci, N. S., Silas, K., Moses, L., Jessica, M. M., Njagi, E. N. M., Okemo, P. O. & Nathan, L. 2012. Antimicrobial resistance and plasmid profiles of *Aeromonas hydrophila* isolated from River Njoro, Kenya. *African Journal of Biotechnology* 11 (96): 16284-16290.

Nielsen, K. M., Gjoen, T., Asare, N. Y. O., Lunestad, B. T., Ytrehus, B., Yazdankhah, S. P. & Tronsmo, A., 2018. Antimicrobial resistance in wildlife potential for dissemination. Opinion of the Panel on Microbial

Ecology of the Norwegian Scientific Committee for Food and Environment. VKM Report: 304-305.

Nielsen, M. E., Hoi, L., Schmidt, A. S., Qian, D., Shimada, T., Shen, J. Y. & Larsen, J. L. 2001. Is *Aeromonas hydrophila* the dominant motile *Aeromonas* species that causes disease outbreaks in aquaculture production in the Zhejiang province of China? *Diseases of Aquatic Organisms* 46: 23-29.

Obayiuwana, A., Ogunjobi, A., Yang, M. & Ibekwe, M. 2018. Characterization of bacterial communities and their antibiotic resistance profiles in wastewaters obtained from pharmaceutical facilities in Lagos and Ogun states, Nigeria. *International Journal of Environmental Research and Public Health* 15 (1365): 1- 14.

Obi, C. L. & Bessong, P. O. 2002. Diarrheagenic bacterial pathogens in HIV-positive patients with diarrhea in rural communities of Limpopo Province, South Africa. *Journal of Health Population and Nutrition* 20:230-4.

Obi, C. L., Coker, A. O., Epoke, J. & Ndip, R. N. 1997. Enteric bacterial pathogens in stools of residents of urban and rural regions in Nigeria: A comparison of patients with diarrhea and controls without diarrhea. *Journal of Diarrheal Diseases Research* 15: 241-247.

Ogden, I. D., Millar, I. G., Watt, A. J. & Wood, L. 1994. A comparison of three identification kits for the confirmation of *Aeromonas spp*. *Letters in Applied Microbiology 18* (2): 97-99.

Ohse, M., Takahashi, K., Kadowaki, Y. & Kusaoke, H. 1995. Effects of plasmid DNA sizes and several other factors on transformation of *Bacillus subtilis* ISW1214 with plasmid DNA by electroporation. *Bioscience, Biotechnology and Biochemistry* 59 (8):1433- 1437.

Ouderkirk, J. P., Bekhor, D., Turett, G. S. & Murali, R. 2004. *Aeromonas* meningitis complicating medicinal leech therapy. *Clinical Infectious Diseases* 38:e36–e37.

Overman, T. L., Damato, R. F. & Tomfohrde, K. M. 1979. Incidence of "oxidase-variable" strains of *Aeromonas hydrophila*. *Journal of Clinical Microbiology* 9 (2): 244-247.

Pal A. & Bhattacharjee, S. 2011. Isolation and characterization of aeromonads from North Bengal, India. *NBU Journal of Animal Science* 5: 47- 56.

Palumbo, S. A., Maxino, F., Williams, A. C., Buchanan, R. L. & Thayer, D. T. W. 1985. Starch-ampicillin agar for the quantitative detection of *Aeromonas hydrophila*. *Applied and Environmental Microbiology* 50:1027–1030.

Patra, A. K., Sengupta, S. & Datta, T. 2011. Physico-chemical properties and ichthyofauna diversity in Karala river, a tributary of Teesta river at Jalpaiguri distruct of West Bengal, India. *International Journal of Applied Biology and Pharmaceutical Technology* 2 (3): 47-58.

Patra, M., Pandey, S. K., Ramamurthy, T., Singh, D. V. & Das, S. K. 2007. Characterization of cytotoxin-producing *Aeromonas caviae* (strain HT10) isolated from a sulfur spring in Orissa, India. *Letters in Applied Microbiology* 44: 338-341.

Pettibone, G. W. 1998. Population dynamics of *Aeromonas* spp. in an urban river watershed. *Journal of Applied Microbiology* 85: 723–730.

Pidiyar, V., Kaznowski, A., Narayan, N. B., Patole, M. & Shouche, Y. S. 2002. *Aeromonas culicicola* sp nov., from the midgut of *Culex quinquefasciatus*. *International Journal of Systematic and Evolutionary Microbiology* 52:1723–1728.

Popoff, M. 1984. Genus III. *Aeromonas* Kluyver and Van Niel 1936, 398AL. In *Bergey's Manual of Systematic Bacteriology*, Edited by N. R. Krieg & J. G. Holt. Baltimore: Williams & Wilkins. Vol. 1, pp. 545–548.

Popoff, M. Y., Coynault, C., Kiredjian, M. & Lemelin, M. 1981. Polynucleotide sequence relatedness among motile *Aeromonas species*. *Current Microbiology* 5: 109–114.

Pradhan K. & Pal J. 1993. Drug sensitivity testing of bacteria isolated from ulcerative disease of air-breathing fishes. *Journal of Parasitology and Applied Animal Biology* 2: 15-18.

Pradhan, K. & Pal, J. 1990. Drug sensitivity testing of bacteria isolated from ulcerative diseases of air breathing fishes. *Journal of Parasitology and Applied Animal Biology* 2:15-18.

Prado, V. & O'ryan, M. L. 1994. Acute gastroenteritis in Latin America. *Infectious Disease Clinics of North America.* 8: 77-106.

Pruden, A., Larsson, D. J., Amezquita, A., Collignon, P., Brandt, K. K., Graham, D. W., Lazorchak, J. M., Suzuki, S., Silley, P., Snape, J. R.,

Topp, E., Zhang, T. & Zhu, Y. G. 2013. Management options for reducing the release of antibiotics and antibiotic resistance genes to the environment. *Environmental Health Perspectives* 121 (8): 878- 885.

Pruitt, K. D., Tatusova, T. & Maglott, D. R. 2007. NCBI reference sequences (RefSeq): a curated non-redundant sequence database of genomes, transcripts and proteins. *Nucleic Acids Research* 35: D61-D65.

Puthucheary, S. D., Puah, S. M., Chua, K. H. 2012. Molecular characterization of clinical isolates of *Aeromonas* species from Malaysia. *PLOS One* 7(2): 1-7.

Qian, D., Chen, Y., Shen, J. & Shen, Z. 1997. Studies on the pathogen of fish bacterial septicemia in Zhejiang province during 1989–1992: Biochemical characteristics, virulence and serogroups of *Aeromonas hydrophila*. In: Yingqi Z, Fuyuan H, Hongqi Z, He C, Chaoqi Y, Fuhui D, Yi L (eds) Proceedings of Fourth Asian Fisheries Forum, Beijing 16–20 Oct 1995. China Ocean Press, Beijing, p 242–245.

Rabaan, A. A., Gryllos, I., Tomas, J. M. & Shaw, J. G. 2001. Motility and the polar flagellum are required for *Aeromonas caviae* adherence Hep-2 cells. *Infection and Immunity* 69: 4257–4267.

Rahman, M., Colque-Navarro, P., Kuhn, I., Huys, G., Swings, J. & Molly, R. 2002. Identification and characterization of pathogenic *Aeromonas veronii b*iovar sobria associated with epizootic ulcerative syndrome in fish in Bangladesh. *Applied and Environmental Microbiology* 68 (2): 650- 655.

Ramakrishnan, B., Venkateswarlu, K., Sethunathan, N. & Megharaj, M. 2019. Local applications but global implications: Can pesticides drive microorganisms to develop antimicrobial resistance? *Science of the Total Environment* 654: 177- 189.

Rasmussen, B. A., Keeney, D., Yang, Y. & Bush, K. 1994. Cloning and expression of a cloxacillin-hydrolyzing enzyme and cephalosporinase from *Aeromonas sobria* AER 14M in *Escherichia coli*: requirement for an *E. coli* chromosomal mutation for efficient expression on the class D enzyme. *Antimicrobial Agents and Chemotherapy* 38:2078–2085.

Rhodes, G., Huys, G., Swings, J., McGann, P., Hiney, M., Smith, P. & Pickup, R. W. 2000. Distribution of oxytetracyclin resistance plasmids between aeromonads in hospital and aquaculture environments: implication of Tn1721

in dissemination of the tetracycline resistance determinant Tet A. *Applied and Environmental Microbiology* 66 (9): 2883- 3890.

Roberts, R. J. 1997. Epizootic ulcerative syndrome (EUS): progress since 1985. In: Flegel TW, MacRae IH (eds) Diseases in Asian aquaculture III. Asian Fisheries Society, Manila, p 125–128.

Rodriguez, C. N., Campos, R., Pastran, B., Jiminez, I., Garcia, A., Meijomil, P. & Rodriguez-Morales, A. J. 2005. Sepsis due to extended-spectrum - lactamase-producing *Aeromonas hydrophila* in a pediatric patient with diarrhea and pneumonia. *Clinical Infectious Diseases* 41:421–422.

Roy, R. P., Bahadur, M. & Barat, S. 2013. Isolation, identification and antibiotic resistance of *Aeromonas spp*. and *Salmonella spp*. from the fresh water loach, *Lepidocephalichthys guntea* and water of Terai river Lotchka, West Bengal, India. *Zoologica Poloniae* 58 (1-2): 5- 17.

Ruimy, R., Breittmayer, V., Elbaze, P., Lafay, B., Boussemart, O., Gauthier, M. & Christen, R. 1994. Phylogenetic analysis and assessment of the genera *Vibrio*, *Photobacterium*, *Aeromonas*, and *Plesiomonas* deduced from small-subunit rRNA sequences. *International Journal of Systematic Bacteriology* 44 (3): 416-26.

Ruiz, J. 2018. Etymologia: TEM. *Emerging Infectious Diseases* 24 (4): 709.

Russell, A. D. 2004. Types of antibiotics and synthetic antimicrobial agents. In: Denyer S. P., Hodges N. A. & German S. P. (eds.) Hugo and Russell‟s pharmaceutical microbiology. 7th Ed. Blackwell Science, UK. P. 152-186.

Saha, D. & Pal, J. 2002. In vitro antibiotic susceptibility of bacteria isolated from EUS-affected fishes in India. *Letters in Applied Microbiology* 34: 311-316.

Saha, M., Sengupta, S., Sinha, B & Mishra, D. K. 2017. Assessment of physico-chemical properties, some heavy metals and arsenic of river Teesta in Jalpaiguri district, West Bengal, India. *Asian Journal of Research in Chemistry* 10 (3): 399- 404.

Saha, P. & Chakrabarti, T. 2006. *Aeromonas sharmana* sp. nov., isolated from a warm spring. *International Journal of Systematic and Evolutionary Microbiology* 56 (8): 1905–1909.

Sahoo, P. K., Mohanty, J., Garnayak, J. S. K., Mohanty, B. R. & Kar, B. 2013. Estimation of loss due to argulosis in carp culture ponds in India. *Indian Journal of Fisheries* 60: 99-102.

Sahoo, P. K., Paul, A., Sahoo, M. K., Pattanayak, S., Rajesh Kumar, P. & Das, B. K. 2020. Incidences of infectious diseases in freshwater aquaculture farms of Eastern India: A passive surveillance based study from 2014-2018. *Journal of Aquaculture Research and Development* 11 (1): 1-5.

Sakazaki, R. & Shimada, T. 1984. O-Serogrouping scheme for mesophilic *Aeromonas* strains. *Japanese Journal of Medical Science and Biology* 37: 247-255.

Salvat, M. J. F. & Ashbolt, N. 2019. *Aeromonas*. In: J. B. Rose and B. Jimenez-Cisneros, (eds) Global Water Pathogen Project. http://www.waterpathogens.org (A. Pruden, N. Ashbolt and J. Miller (eds) Part 3 Bacteria).

Sambrook, J. & Russell, D. W. 2001. Molecular Cloning A laboratory Manual (Third edition, Vol 3) 2001.

Sanarelli, G. 1891. Ueber einen neuen mikroorganismus des Wassers, welcher fur thiere mit veraenderlicher und konstanter temperatur pathogen ist. *Zentrable Bakteriol* 2: 222–228.

Sanchez-Cespedes, J., Blasco, M. D., Marti, S., Alba, V., Alcade, E., Esteve, C. & Vida, J. 2008. Plasmid-mediated QnrS determinant from a clinical *Aeromonas veronii* isolate. *Antimicrobial Agents and Chemotherapy* 52 (8):2990–2991.

Sarkar, A., Saha, M. & Roy, P. 2012. Identification and typing of *Aeromonas hydrophila* through 16S rDNA-PCR fingerprinting. *Journal of Aquaculture Research and Development* 3 (6): 1-4.

Schmidt, A. S., Bruun, M. S., Larsen, J. L. & Dalsgaard, I. 2001. Characterization of class 1 integrons associated with R-plasmids in clinical *Aeromonas salmonicida* isolates from various geographical areas. *Journal of Antimicrobial Chemotherapy* 47 (6): 735- 743.

Schubert, R. H. 2000. Intestinal cell adhesion and maximum growth temperature of psychrotrophic aeromonads from surface water. *International Journal of Hygiene and Environmental Health* 203: 83–85.

Schubert, R. H. W. & Hegazi, M. 1988. *Aeromonas eucrenophila* species nova, *Aeromonas caviae* a later and illegitimate synonym of *Aeromonas punctata*. *Zentralblatt fur Bakteriologie, Mikrobiologie und Hygiene. Series A:*

Medical Microbiology, Infectious Diseases, Virology, Parasitology 268: 34–39.

Schubert, R. H. W., Hegazi, M. & Wahlig, W. 1990a. *Aeromonas enteropelogenes* species nova. *Tropical Medicine and Hygeine* 15: 471–472.

Schubert, R. H. W., Hegazi, M. & Wahlig, W. 1990b. *Aeromonas ichthiosmia* species nova. *Tropical Medicine and Hygeine* 15: 477–479.

Scoaris, D. D. O., Bizerra, F. C., Yamada-Ogatta, S. F., Filho, B. A. D. A., Ueda-Nakamura, T., Nakamura, C. V. & Filho, B. P. D. 2008. The occurrence of *Aeromonas* spp. in the bottled mineral water, well water and tap water from the municipal supplies. *Brazilian Archives of Biology and Technology* 51 (5): 1049-1055.

Sechi, L. A., Deriu, A., Falchi, M. P., Fadda, G. & Zanetti, S. 2003. Distribution of virulence genes in *Aeromonas spp*. isolated from Sardinian waters and from patients with diarrhea. *Journal of Applied Microbiology* 92: 221–227.

Sha, J., Kozlova, E. V. & Chopra, A. K. 2002. Role of various enterotoxins in *Aeromonas hydrophila*-induced gastroenteritis: generation of enterotoxin gene-deficient mutants and evaluation of their enterotoxic activity. *Infecion and Immununity* 70:1924–1935.

Sha, J., Pillai, L., Fadl, A. A., Galindo, C. L., Erova, T. E. & Chopra, A. K. 2005. The type III secretion system and cytotoxic enterotoxin alter the virulence of *Aeromonas hydrophila*. *Infection and Immunity* 73:6446–6457.

Shariff, M. 1998. Impact of diseases on aquaculture in the Asia-Pacific region as exemplified epizootic ulcerative syndrome (EUS). *Journal of Applied Ichthyology* 14:139–144.

Shelburne III, S. A., Keith, D., Horstmann, N., Sumby,P., Davenport, M. T., Graviss, E. A., Brennan, R. G., & Musser, J. M. 2008. A direct link between carbohydrate utilization and virulence in the major human pathogen group A *Streptococcus. Proceedings of the National Academy of Sciences of the United States of America* 105 (5): 1698-1703.

Sherlock, C. H., Burdge, D. R. & Smith, J. A. 1987. Does *Aeromonas hydrophila* preferentially colonize the bowels of patients with hematologic malignancies? *Diagnostic Microbiology and Infectious Diseases* 7:63–68.

Shi, Y., Tian, Z., Leclercq, S. O., Zhang, H., Yang, M. & Zhang, Y. 2019. Genetic characterization and potential molecular dissemination mechanism of tet (31) gene in *Aeromonas caviae* from an oxytetracycline wastewater treatment system. *Journal of Environmental Science* 76: 259-266.

Sinha, S., Chattopadhyay, S., Bhattacharya, S. K., Nair, G. B. & Ramamurthy, T. 2004. An unusually high level of quinolone resistance associated with type II topoisomerase mutations in quinolone resistance-determining regions of *Aeromonas caviae* isolated from diarrheal patients. *Research in Microbiology* 155:827–829.

Skwor T., Stringer, S., Haggerty, J., Johnson, J., Duhr, S., Johnson, M., Seckinger, M. & Stemme, M. 2020. Prevalence of potentially pathogenic antibiotic-resistant *Aeromonas* spp. in treated urban wastewater effluents versus recipient riverine populations: a 3-year comparative study. *Applied and Environmental Microbiology* 86 (3): 1- 16.

Sohn, H. J., Nam, D. N., Kim, Y. S. & Paik H. J. 2007. Endogenous *Aeromonas hydrophila* endophthalmitis in an immunocompromised patient. *Korean Journal of Ophthalmology* 21:45–47.

Soler, L., Figueras, M. J., Chacon, M. R., Vila, J., Marco, F., Martinez Murcia, A. J., Guarro, J. 2002. Potential virulence and antimicrobial susceptibility of *Aeromonas popoffii* recovered from freshwater and seawater. *FEMS Immunology and Medical Microbiology* 32: 243-247.

Son, R., Rusul, G., Sahilah, A. M., Zainuri, A., Raha, A. R. & Salmah, I. 1997. Antibiotic resistance and plasmid profile of *Aeromonas hydrophila* isolates from cultured fish, Telapia (*Telapia mossambica*). *Letters in Applied Microbiology* 24: 479-482.

Sophie, C., Lidia, B., Jill, W., Michael, N. C. & Joerg, G. 2014. GenBank Data. Accession number NZCDBW01000046.

Spadaro, S., Berselli, A., Marangoni, E., Romanello, A., Colamussi, M. V., Ragazzi, R., Zardi, S. & Volta, C. A. 2014. *Aeromonas sobria* necrotizing fasciitis and sepsis in an immunocompromised patient: a case report and review of the literature. *Journal of Medical Case Reports* 8 (315): 1-6.

Spellberg, B., Guidos, R., Gilbert, D., Bradley, J., Boucher, H. W., Scheld, M., Bartlett, J. G. & Edwards, G. Jr. 2008. The Epidemic of antibiotic-resistant

infections: A call to action for the medical community from the Infectious Diseases Society of America. *Clinical Infectious Diseases* 46: 155- 164.

Stackebrandt, E., Frederiksen, W., Garrity, G. M., Grimont, P. A. D., Kampfer, P., Maiden, M. C. J., Nesme, X., Rossello-Mora, R., Swings, J., Truper, H. G., Vauterin, L., Ward, A. C. & Whitman, W. B. 2002. Report of the ad hoc committee for the re-evaluation of the species definition in bacteriology. *International Journal of Systematic Evolution and Microbiology* 52: 1043–1047.

Stanier, R. Y. 1943. A note on the taxonomy of *Proteus hydrophilus*. *Journal of Bacteriology* 46: 213–214.

Startev, D. & Odeyemi, O. A. 2016. Antimicrobial resistance of *Aeromonas hydrophila* isolated from different food sources: A mini-review. *Journal of Infection and Public Health* 9: 535-544.

Stehr, F., Kretschmar, M., Kroger, C., Hube, B. & Schafer, W. 2003. Microbial lipases as virulence factors. *Journal of Molecular Catalysis B: Enzymatic* 22 (5-6): 347-355.

Sujita, H., Nakamura, T., Tanaka, K. and Deguchi, Y. 1994. Identification of *Aeromonas* species isolated from freshwater fish with the microplate hybridization method. *Applied and Environmental Microbiology* 60 (8): 3036- 3038.

Susma, G., Subba, A., Jha, S. & Pandey, M. 2015. Analysis of physico-chemical variations in water samples of river Teesta of Sikkim. *International Journal of Engineering Technology Science and Research* 2 (2): 49- 60.

Swift, S., Karlyshev, A. V., Fish, L., Durant, E. L., Winson, M. K., Chhabra, S. R., Williams, P., Macintyre, S. & Stewart, G. S. A. B. 1997. Quorum sensing in *Aeromonas hydrophila* and *Aeromonas salmonicida*: Identification of the LuxRI homologs AhyRI and AsaRI and their cognate *N*-Acylhomoserine lactone signal molecules. *Journal of Bacteriology* 179 (17): 5271- 5281.

Tacao, M., Moura, A., Alves, A., Henriques, I., Saavedra, M. J. & Correia, A. 2005. Evaluation of 16S rDNA- and gyrB-DGGE for typing members of the genus *Aeromonas*. *FEMS Microbiology letters* 246: 11-18.

Tacconelli, E., Carrara, E., Savoldi, A., Harbarth, S., Mendelson, M., Monnet, D. L., Pulcini, C., Kahlmeter, G., Kluytmans, J, Carmeli, Y., Ouellette, M., Outterson, K., Patel, J., Cavaleri, M., Cox, E. M., Houchens, C. R., Grayson, M. L., Hansen, P., Singh, N., Theuretzbacher, U. & Magrini, N. 2018. Discovery, research, and development of new antibiotics: the WHO priority list of antibiotic-resistant bacteria and tuberculosis. *Lancet Infectious Diseases* 18 (3): 318–327.

Talagrand- Reboul, E., Jumas- Bilak, E. & Lamy, B. 2017. The social life of *Aeromonas* through biofilm and quorum sensing systems. *Frontiers in Microbiology* 8 (37): 1- 19.

Tan, T. Y., Hsu, L. Y., Koh, T. H., Ng, L. S. Y., Tee, N. W. S., Krishnan, P., Lin, R. T. P. & Jureen, R. 2008. Antibiotic resistance in Gram negative bacilli: a Singapore Perspective. *ANNALS Academy of Medicine Singapore* 37 (10): 819- 825.

Tena, D., Aspiroz, C., Figueras, M. J., Gonzalez-Praetorius, A., Aldea, M. J., Alperi, A. & Bisquert, J. 2009. Surgical site infection due to *Aeromonas species*: report of nine cases and literature review. *Scandinavian Journal of Infectious Diseases* 41:164–170.

Thompson, J. D., Gibson, T. J., Plenwniak, F., Jeanmougin, F. & Higgins, D. G. 1997. The Clustal X windows interface: flexible strategies for multiple sequence alignment aided by quality analysis tools. *Nucleic Acids Research* 24: 4876- 4882.

Thorton, S. M., Nolan, S. & Gulland, F. M. 1998. Bacterial isolates from California sea lions (*Zalophus californicus*), harbor seals (*Phoca vitulina*), and northern elephant seals (*Mirounga angustirostris*) admitted to a rehabilitation center along the central California coast, 1994–1995. *Journal of Zoo and Wildlife Medicine* 29:171–176.

Thune, R. L., Stanley, L. A. & Cooper, K. 1993. Pathogenesis of gram negative bacterial infections in warm water fish. *Annual Review of Fish Disease* 3: 37–68.

Thurlow, L. R., Thomas, V. C., Narayanan, S., Olson, S., Fleming, S. D. & Hancock, L. E. 2010. Gelatinase contributes to the pathogenesis of endocarditis caused by *Enterococcus faecalis. Infection and Immunity* 78 (11): 4936-4943.

Toranzo, A. E., Barja, J. L., Colwell, R. R. & Hetrick, F. M. 1983. Characterization of Plasmids in Bacterial Fish Pathogens. *Infection and Immunity* 39 (1): 184-192.

Trust, T. J. & Chipman, D. C. 1979. Clinical involvement of *Aeromonas hydrophila*. *Canadian Medical Association Journal* 120: 942-946.

Tsai, M. S., Kuo, C. Y., Wang, M. C., Wu, H. C., Chien, C. C. & Liu, J. W. 2006. Clinical features and risk factors for mortality in *Aeromonas* bacteremic adults with hematologic malignancies. *Journal of Microbiology Immunology and Infection* 39:150–154.

Umelo, E. & Trust, T.J. 1997. Identification and molecular characterization of two tandemly located flagellin genes from *Aeromonas salmonicida* A449. *Journal of Bacteriology* 179: 5292–5299.

Vadivelu, J., Puthucheary, S. D., Phipps, M. & Chee, Y. W. 1995. Possible virulence factors involved in bacteraemia caused by *Aeromonas hydrophila*. *Microbial Pathogenicity* 42: 171-174.

Van Hoek, A. H. A. M., Mevius, D., Guerra, B., Mullany, P., Roberts, A. P. & Aarts, H. J. M. 2011. Acquired antibiotic resistance genes: An overview. *Frontiers in Microbiology* 2: 1-27.

Vasiliadou, I. A., Molina, R., Martinez, F., Melero, J. A., Stathopoulou, P. M., & Tsiamis, G., 2018. Toxicity assessment of pharmaceutical compounds on mixed culture from activated sludge using respirometric technique: the role of microbial community structure. *Science of the Total Environment* 630: 809–819.

Vavrova, A., Balazova, T., Sedlacek, I., Tvrzova, L. & Sedo, O. 2015. Evaluation of the MALDI-TOF MS profiling for identification of newly described *Aeromonas spp*. *Folia Microbiologica* 60: 375–383.

Vila, J., Ruiz, J., Gallardo, F., Vargas, M., Soler, L., Figueras, M. J. & Gascon, J. 2003. *Aeromonas* spp. and traveler's diarrhea: clinical features and antimicrobial resistance. *Emerging Infectious Diseases* 9:552–555.

Vivas, J., Carracedo, B., Riano, J., Razquin, B. E., Lopez- Fierro, P., Acosta, F., Naharro, G. & Villena, A. J. 2004. Behavior of an *Aeromonas hydrophila aroA* live vaccine in water microcosms. *Applied and Environmental Microbiology* 70: 2702-2708.

Vries, J. D. & Wackernagel, W. 2002. Integration of foreign DNA during natural transformation of *Acinetobacter* sp. by homology-facilitated illegitimate recombination. *Proceedings of the National Academy of Sciences of the United States of America* 99 (4): 2094-2099.

Walsh, C. 2003. Antibiotics: actions, origins, resistance. 1st Ed. ASM Press, Washington, DC. 345p.

Walsh, T. R. 2010. Emerging carbapenemases: a global perspective. *International Journal of Antimicrobial Agents* 36 (3): S8- S14.

Walsh, T. R., Payne, D. J., MacGowan, A. P. & Bennett, P. M. 1995. A clinical isolate of *Aeromonas sobria* with three chromosomally mediated inductible betalactamases: a cephalosporine, a penicillinase and a third enzyme, displaying carbapenemase activity. *Journal of Antimicrobial Chemotherapy* 35: 271–279.

Walsh, T. R., Stunt, R. A., Nabi, J. A., MacGowan, A. P. & Bennett, P. M. 1997. Distribution and expression of β-lactamase genes among *Aeromonas spp*. *Journal of Antimicrobial Chemotherapy* 40:171–178.

Walsh, T. R., Weeks, J., Livermore, D. M. & Toleman, M. A. 2011. Dissemination of NDM-1 positive bacteria in the New Delhi environment and its implications for human health: an environmental point prevalence study. *The Lancet Infectious Diseases* 11 (5): 355–362.

Wang, G., Clark, C. G., Liu, C., Pucknell, C., Munro, C. K., Kruk, T. M. A. C., Caldeira, R., Woodward, D. L. & Rodgers, F. G. 2003. Detection and characterization of the Hemolysin Genes in *Aeromonas hydrophila* and *Aeromonas sobria* by Multiplex PCR. *Journal of Clinical Microbiology* 41: 1048–1054.

Willoughby, J. M. T., Rahman, A. F. M. S. & Gregory, M. M. 1989. Chronic colitis after *Aeromonas* infection. *Gut* 30:686–690.

Woese, C. R. 1987. Bacterial Evolution. *Microbiological Reviews* 51 (2): 221- 271.

Wu, C. J., Lee, H. C., Chang, T. T., Chen, C. Y., Lee, N. Y., Chang, C. M., Sheu, B. S., Cheng, P. N., Shih, H. I. & Ko, W. C. 2009. *Aeromonas* spontaneous bacterial peritonitis: a highly fatal infectious disease in patients with advanced liver cirrhosis. *Journal of the Formosan Medical Association* 108:293–300.

Xu, X. J., Ferguson, M. R., Popov, V. L., Houston, C. W., Peterson, J. W. & Chopra, A. K. 1998. Role of a cytotoxic enterotoxin in *Aeromonas*-mediated infections: development of transposon and isogenic mutants. *Infection and Immunity* 66: 3501–3509.

Yamamoto, S. & Harayama, S. 1996. Phylogenetic analysis of Acinetobacter strains based on the nucleotide sequences of gyrB genes and on the amino acid sequences of their products. *International Journal of Systematic Bacteriology* 46: 506–511.

Yamamoto, T., Ishii, T., Sanaka, M., Saitoh, M. & Kuyama, Y. 2004. Ileal ulcers due to *Aeromonas hydrophila* infection. *Journal of Clinical Gastroenterology* 38:911.

Yanez, M. A., Catalan, V. Apraiz, D., Figueras, M. J. & Martinez-Murcia, A. J. 2003. Phylogenetic analysis of members of the genus *Aeromonas* based on gyrB gene sequences. *International Journal of Systematic and Evolutionary Microbiology* 53: 875–883.

Yang, X., Yang, Q. Q., Guo, Q. Y., Yi, C. Y., Mao, H. P., Lin, J. X., Jiang, Z. P. & Yu, X. Q. 2008. *Aeromonas salmonicida* peritonitis after eating fish in a patient undergoing CAPD. *Peritoneal Dialysis Internationa*l 28:316–317.

Yarza, P, Sproer, C., Swiderski, J., Mrotzek, N., Spring, S., Tindall, B. J., Gronow, S., Pukall, R., Klenk, H. P., Lang, E., Verbarg, S., Crouch, A., Lilburn, T., Beck, B., Unosson, C., Cardew, S., Moore, E. R., Gomila, M., Nakagawa, Y., Janssens, D., De Vos, P., Peiren, J., Suttels, T., Clermont, D., Bizet, C., Sakamoto, M., Iida, T., Kudo, T., Kosako, Y., Oshida, Y., Ohkuma, M. R., Arahal, D., Spieck, E., Roeser, A. P., Figge, M., Park, D., Buchanan, P., Cifuentes, A., Munoz, R., Euzeby, J. P., Schleifer, K. H., Ludwig, W., Amann, R., Glockner, F. O. & Rossello-Mora, R. 2013. Sequencing orphan species initiative (SOS): Filling the gaps in the 16S rRNA gene sequence database for all species with validly published names. *Systematic and Applied Microbiology* 36 (1): 69-73.

Yi, S. W., Yuo, M. J., Cho, H. S., Lee, C. S., Kwon, J. K. and Shin, G. W. 2013. Molecular characterization of *Aeromonas* species isolated from farmed eels (*Anguilla japonica*). *Veterinary Microbiology* 164: 195- 200.

Yong, D., Toleman, M. A., Giske, C.G., Cho, H. S. Sundman, K., Lee, K. & Walsh, T.R. 2009. Characterization of a new metallo-β-lactamase gene, blaNDM-1, and a novel erythromycin esterase gene carried on a unique genetic structure in Klebsiella pneumoniae sequence type 14 from India. *Antimicrobial Agents and Chemotherapy* 53 (12): 5046–5054.

Yu, H. B., Zhang, Y. L., Lau, Y. L., Yao, F., Vilches, S., Merino, S., Tomas, J. M., Howard, S. P. & Leung, K. Y. 2005. Identification and characterization of putative virulence genes and gene clusters in *Aeromonas hydrophila* PPD134/91. *Applied and Environmental Microbiology* 71: 4469–4477.

Zahid, H.M., Mahal, Z. & Chowdhury, M. R. 2009. Prevalence of multiple antibiotic resistant bacteria and chromosomal determinants in surface water of Bangladesh. *African Journal of Biotechnology.* 8 (2): 148-154.

Zdanowicz, M., Mudryk, Z. J. & Perlinski, P. 2020. Abundance and antibiotic resistance of *Aeromonas* isolated from the water of three carp ponds. *Veterinary Research Communications* 44: 9–18.

Zhang, H., Jia, Y., Khanal, S. K., Lu, H., Fang, H. & Zhao, Q. 2018. Understanding the role of extracellular polymeric substances (EPS) on ciprofloxacin (CIP) adsorption in aerobic sludge, anaerobic sludge and sulfate-reducing bacteria (SRB) sludge systems. *Environmental Science and Technology* 52 (11): 6476–6486.

Zhiyong, Z., Xiaoju, L. & Yanyu, G. 2002. *Aeromonas hydrophila* infection: clinical aspects and therapeutic options. *Reviews in Medical Microbiology* 13: 151– 162.