

3.10 References

- Aguayo, J., A. Miquel, N. Aranki, A. Jamett, P. D. T. Valenzuela, and L. O. Burzio. Detection of *Piscirickettsia salmonis* in fish tissues by an enzyme-linked immunosorbent assay using specific monoclonal antibodies. *Diseases of Aquatic Organisms* 49:33-38.
- Alday-Sanz, V., H. Rodger, T. Turnbull, A. Adams, and R. H. Richards. 1994. An immunohistochemical diagnostic test for rickettsial disease. *Journal of Fish Diseases* 17:189-191.
- Austin, B., D. Bucke, S. Feist, and J. Rayment. 1985. A false positive reaction in the indirect fluorescent antibody test for *Renibacterium salmoninarum* with a 'coryneform' organism. *Bulletin of the European Association of Fish Pathologists* 5:8-9.
- Austin, B., and D. A. Austin. 1987. *Bacterial Fish Pathogens: Disease in Farmed and Wild Fish*. Ellis Horwood LTD, West Sussex, England. 364 pp.
- Austin, B., T. M. Embley, and M. Goodfellow. 1983. Selective isolation of *Renibacterium salmoninarum*. *FEMS Microbiology Letters* 17:111-114.
- Branson, E. J., and N. Nieto Diaz-Munoz. 1991. Description of a new disease condition occurring in farmed coho salmon, *Oncorhynchus kisutch* (Walbaum), in South America. *Journal of Fish Diseases* 14:147-156.
- Bravo, S. 1994. Piscirickettsiosis in freshwater. *Bulletin of the European Association of Fish Pathologists* 14(4):137-138.
- Bravo, S., and M. Campos. 1989. Coho salmon syndrome in Chile. *American Fisheries Section – Fish Health Section Newsletter* 17(3):3.
- Brocklebank, J. R., D. J. Speare, R. D. Armstrong, and T. Evelyn. 1992. Septicemia suspected to be caused by a rickettsia-like agent in farmed Atlantic salmon. *Canadian Veterinary Journal* 33:407-408.
- Brown, L. L., T. P. T. Evelyn, G. K. Iwama, W. S. Nelson, and R. P. Levine. 1995. Bacterial species other than *Renibacterium salmoninarum* cross-react with antisera against *R. salmoninarum* but are negative for the p57 gene of *R. salmoninarum* as detected by the polymerase chain reaction (PCR). *Diseases of Aquatic Organisms* 21:227-231.
- Bullock, G. L., B. R. Griffin, and H. M. Stuckey. 1980. Detection of *Corynebacterium salmonis* by direct fluorescent antibody test. *Canadian Journal of Fisheries and Aquatic Sciences* 37:719-721.
- Bullock, G. L., R. C. Cipriano, and S. F. Snieszko. 1983. *Furunculosis and Other Diseases Caused by Aeromonas salmonicida*. Fish Disease Leaflet No. 66. Fish and Wildlife Service, U. S. Department of the Interior, Division of Fishery Ecology Research. Washington, D. C. 29 pp.
- Bullock, G. L. 1984. *Enteric Redmouth Disease of Salmonids*. Fish Disease Leaflet No. 67. Fish and Wildlife Service, U. S. Department of the Interior, Division of Fishery Research. Washington, D. C. 14 pp.

- Bullock, G. L., and R. L. Herman. 1985. *Edwardsiella* Infections of Fishes. Fish Disease Leaflet No. 71. Fish & Wildlife Service, U. S. Department of the Interior, Division of Fishery Research. Washington, D. C. 6 pp.
- Bullock, G. L., and R. L. Herman. 1988. Bacterial Kidney Disease of Salmonid Fishes Caused by *Renibacterium salmoninarum*. Fish Disease Leaflet No. 78. Fish and Wildlife Service, U. S. Department of the Interior, Washington, D. C. 10 pp.
- Chapman, P. F., R. C. Cipriano, and J. D. Teska. 1991. Isolation and phenotypic characterization of an oxidase-negative *Aeromonas salmonicida* causing furunculosis in coho salmon (*Onchorhynchus kisutch*). *Journal of Wildlife Diseases* 27:61-67.
- Chase, D. M., and R. J. Pascho. 1998. Development of a nested polymerase reaction for amplification of a sequence of the p57 gene of *Renibacterium salmoninarum* that provides a highly sensitive method for detection of the bacterium in salmonid kidney. *Diseases of Aquatic Organisms* 34:223-229.
- Chen, S. C., M. C. Tung, S. P. Chen, J. F. Tsai, P. C. Wang, R. S. Chen, S. C. Lin, and A. Adams. 1994. Systemic granulomas caused by a rickettsia-like organism in Nile tilapia, *Oreochromis niloticus* (L.), from southern Taiwan. *Journal of Fish Diseases* 17:591-599.
- Chen, S. C., P. C. Wang, M. C. Tung, K. D. Thompson, and A. Adams. 2002a. A *Piscirickettsia salmonis*-like organism in grouper, *Epinephelus melanostigma* in Taiwan. *Journal of Fish Diseases* 23:415-418.
- Chen, M. F., S. Yun, G. D. Marty, T. S. McDowell, M. L. House, J. A. Apperson, T. A. Guenther, K. D. Arkush, and R. P. Hedrick. 2000b. A *Piscirickettsia salmonis*-like bacterium associated with mortality of white seabass *Atractoscion nobilis*. *Diseases of Aquatic Organisms* 43:117-126.
- Chern, R. S., and C. B. Chao. 1994. Outbreaks of a disease caused by a rickettsia-like organism in cultured tilapias in Taiwan. *Fish Pathology* 29(2):61-71.
- Cipriano, R. C., and J. B. Pyle. 1985. Development of a culture medium for determination of sorbitol utilization among strains of *Yersinia ruckeri*. *Microbios Letters* 28:79-82.
- Cipriano, R. C., C. E. Starliper, and J. H. Schachte. 1985. Comparative sensitivities of diagnostic procedures used to detect bacterial kidney disease in salmonid fishes. *Journal of Wildlife Diseases* 21(2):144-148.
- Cusack, R., D. Groman, and S. Jones. 1997. The first reported rickettsial infections of Atlantic salmon in Eastern North America. (Abstract) European Association of Fish Pathologists, VIIIth International Conference, Diseases of Fish and Shellfish. Edinburgh, Scotland. Sept. 14-19.
- Cvitanich, J. D., N. O. Garate, and C. E. Smith. 1991. The isolation of a rickettsia-like organism causing disease and mortality in Chilean salmonids and its confirmation by Koch's postulate. *Journal of Fish Diseases* 14:121-145.
- Cvitanich, J. D. 1994. Improvements in the direct fluorescent antibody technique for the detection, identification, and quantification of *Renibacterium salmoninarum* in salmonid kidney smears. *Journal of Aquatic Animal Health* 6(1):1-12.

- Difco Manual, 11th Edition. 1998. Difco Laboratories, Division of Becton Dickinson and Company. Sparks, MD. 862 pp.
- Elliott, D. G., and T. Y. Barila. 1987. Membrane filtration-fluorescent antibody staining procedure for detecting and quantifying *Renibacterium salmoninarum* in coelomic fluid of chinook salmon (*Oncorhynchus tshawytscha*). Canadian Journal of Fisheries and Aquatic Sciences 44:206-210.
- Elliott, D. G., and C. L. McKibben. 1997. Comparison of two fluorescent antibody techniques (FATs) for detection and quantification of *Renibacterium salmoninarum* in coelomic fluid of spawning chinook salmon *Oncorhynchus tshawytscha*. Diseases of Aquatic Organisms 30:37-43.
- Fryer, J. L., C. N. Lannan, L. H. Garcès, J. J. Larenas, and P. A. Smith. 1990. Isolation of a rickettsiales-like organism from disease coho *Oncorhynchus kisutch* in Chile. Fish Pathology 25(2):107-114.
- Gaggero, A., H. Castro, and A. M. Sandino. 1995. First isolation of *Piscirickettsia salmonis* from coho salmon, *Onchorhynchus kisutch* (Walbaum), and rainbow trout, *Onchorhynchus mykiss* (Walbaum), during the freshwater stage of their life cycle. Journal of Fish Diseases 18:277-279.
- Grant, A. N., A. G. Brown, D. I. Cox, T. H. Birkbeck, and A. A. Griffen. 1996. Rickettsia-like organism in farmed salmon. Veterinary Record 138(17):423.
- Hawke, J. P., A. C. McWhorter, A. G. Steigerwalt, and D. J. Brenner. 1981. *Edwardsiella ictaluri* sp. nov., the causative agent of enteric septicemia of catfish. International Journal of Systematic Bacteriology 31:396-400.
- Kent, M. L., and T. T. Poppe, editors. 1998. Diseases of Seawater Netpen-Reared Salmonid Fishes. Canadian Special Publication of Fisheries and Aquatic Sciences 116. Department of Fisheries and Oceans, Nanaimo, BC, Canada.
- Lannan, C. N., S. A. Ewing, and J. L. Fryer. 1991. A fluorescent antibody test for detection of the rickettsia causing disease in Chilean salmonids. Journal of Aquatic Animal Health 3:229-234.
- Lannan, C. N., and J. L. Fryer. 1991. Recommended methods for inspection of fish for the salmonid rickettsia. Bulletin of the European Association of Fish Pathologists 11:135-136.
- MacFaddin, J. F. 2000. Biochemical Tests for Identification of Medical Bacteria, Third Edition. Lippincott Williams & Wilkins. Philadelphia, PA. 912 pp.
- Marshall, S., S. Heath, V. Henriquez, and C. Orrego. 1998. Minimally invasive detection of *Piscirickettsia salmonis* in cultivated salmonids via the PCR. Applied and Environmental Microbiology 64(8):3066-3069.
- Mauel, M. J., S. J. Giovannoni, and J. L. Fryer. 1996. Development of polymerase chain reaction assays for detection, identification, and differentiation of *Piscirickettsia salmonis*. Diseases of Aquatic Organisms 26:189-195.
- Mauel, M. J., D. L. Miller, K. Frazier, A. D. Liggett, L. Styer, D. Montgomery-Brock, and J. Brock. 2003. Characterization of a piscirickettsiosis-like disease in Hawaiian tilapia. Diseases of Aquatic Organisms 53:249-255.

- Olsen, A. B., H. P. Melby, L. Speilberg, O. Evensen, and T. Hastein. 1997. *Piscirickettsia salmonis* infection in Atlantic salmon *Salmo salar* in Norway-epidemiological, pathological, and microbiological findings. *Diseases of Aquatic Organisms* 31(1):35-48.
- Pascho, R. J., D. Chase, and C. L. McKibben. 1998. Comparison of the membrane-filtration fluorescent antibody test, the enzyme-linked immunosorbent assay, and the polymerase chain reaction to detect *Renibacterium salmoninarum* in salmonid ovarian fluid. *Journal of Veterinary Diagnostic Investigation* 10:60-66.
- Pascho, R. J., D. G. Elliott, R. W. Mallett, and D. Mulcahy. 1987. Comparison of five techniques for the detection of *Renibacterium salmoninarum* in coho salmon. *Transactions of the American Fisheries Society* 116(6):882-890.
- Paterson, W. D., D. Douey, and D. Desautels. 1980. Relationships between selected strains of typical and atypical *Aeromonas salmonicida*, *Aeromonas hydrophila*, and *Haemophilus piscium*. *Canadian Journal of Microbiology* 26:588-598.
- Plumb, J. A., and S. Vinitnantharat. 1989. Biochemical, biophysical, and serological homogeneity of *Edwardsiella ictaluri*. *Journal of Aquatic Animal Health* 1:51-56.
- Plumb, J. A., and C. Shoemaker. 1995. Effects of temperature and salt concentration on latent *Edwardsiella ictaluri* infections in channel catfish. *Diseases of Aquatic Organisms* 21:171-175.
- Rodger, H. D., and E. M. Drinan. 1993. Observation of a rickettsia-like organism in Atlantic salmon, *Salmo salar* L., in Ireland. *Journal of Fish Diseases* 16:361-369.
- Sanders, J. E., and J. L. Fryer. 1980. *Renibacterium salmoninarum*, the causative agent of bacterial kidney disease in salmonid fishes. *International Journal of Systematic and Evolutionary Bacteriology* 30: 496-502.
- Thoesen, J. C., editor. 1994. Suggested Procedures for the Detection and Identification of Certain Finfish and Shellfish Pathogens. Blue Book 4th Edition, Version 1. Fish Health Section, American Fisheries Society.
- Welch, T.J., Verner-Jeffreys D.W., Dalsgaard I., Wiklund T., Evenhuis J.P., Cabrera J.A., Hinshaw J.M., Drennan J.D., LaPatra S.E. 2011. Independent emergence of *Yersinia ruckeri* biotype 2 in the United States and Europe. *Applied Environmental Microbiology* 77(10):3493-9. Epub 2011 Mar 25.
- Wheeler, R.W., Davies R.L., Dalsgaard I., Garcia J., Welch T.J., Wagley S., Bateman K.S., Verner-Jeffreys D.W. 2009. *Yersinia ruckeri* biotype 2 isolates from mainland Europe and the UK likely represent different clonal groups. *Diseases of Aquatic Organisms* 84(1):25-33.