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3.3.15 The brain; 3.3.16 The spinal cord; 3.3.17 Peripheral nerves; 3.3.18 The eye; 3.3.19 The olfactory organ; 3.3.20 The lateral line system; 3.3.21 Taste buds; 3.3.22 The barbels; Further reading; 4 Infectious Diseases ... Viruses, Bacteria and Fungi; 4.1 Viral pathogens and diseases; 4.1.1 Spring viraemia of carp (SVC); 4.1.2 Grass carp haemorrhagic disease (GCHD); 4.1.3 Fish pox; 4.1.4 Emerging viral diseases; 4.2 Bacterial pathogens and diseases; 4.2.1 *Flexibacter*; 4.2.2 *Aeromonads* and *pseudomonads*; 4.2.3 *Mycobacteriosis*; 4.2.4 *Edwardsiella* spp.; 4.2.5 *Proteus rettgeri*; 4.2.6 Emerging bacterial pathogens; 4.3 Fungal pathogens and diseases; 4.3.1 Clinical signs and diagnosis; 4.3.2 Prevention and control; 4.4 Zoonoses; 4.4.1 Bacterial zoonoses; 4.4.2 Viral and fungal zoonoses; Further reading; 5 Infectious Diseases ... Parasites; 5.1 Protozoan parasites and diseases; 5.1.1 *Mastigophora* (flagellates); 5.1.2 *Rhizopoda* (amoebae); 5.1.3 *Ciliophora* (ciliates); 5.1.4 Apicomplexa; 5.1.5 Myxozoa (Myxosporea); 5.1.6 Microspora (Microsporidia); 5.1.7 Protozoan parasites of uncertain taxonomy; 5.2 Monogenean flukes; 5.2.1 *Dactylogyridae*; 5.2.2 *Gyrodactylidae*; 5.2.3 *Polyopisthocotylidae*; 5.3 Digenean flukes (Trematodes); 5.3.1 Digenean flukes with fish as the definitive host; 5.3.2 Digenean flukes with fish as an intermediate host; 5.4 Cestodes (the tapeworms); 5.4.1 Cyprinids as definitive hosts; 5.4.2 Cyprinids as intermediate hosts; 5.5 Nematodes; 5.6 *Acanthocephalans* (spiny headed worms); 5.6.1 *Pomphorhynchus laevis*; 5.7 Mollusca (*Glochidia*); 5.8 Annelid worms (leeches); 5.9 Crustacea; 5.9.1 *Argulus foliaceus*; 5.9.2 *Ergasilus sieboldi*; 5.9.3 *Lernaea cyprinacea*; 5.10 Zoonoses; 5.10.1 Trematodes; 5.10.2 Nematodes; Acknowledgement; Further reading

6 Noninfectious diseases

Sommario/riassunto

Cyprinids rank as one of the most commercially important groups of freshwater fishes and are exploited for many purposes; as a human food source, especially in Europe and Asia; as sport fish; and as ornamental fish for ponds and aquaria. Certain species are also cultured as bait fish and several of the small cyprinids such as the zebra fish have become internationally accepted laboratory models for toxicology testing and molecular research. A thorough understanding of cyprinid health and diseases is fundamental to the successful management and exploitation of these fishes for freshwater fisher