

Introduction	pag. 29
1. GENERAL ASPECTS 1. Aquaculture 2. Gilthead sea bream biology and culture 3. Parasitic diseases in cultured gilthead sea bream	pag. 30
2. MYXOZOA 1. General aspects 2. Malacosporea 3. Myxosporea 4. <i>Enteromyxum leei</i>	pag. 35
3. MICROSPORIDIA 1. General aspects 2. <i>Enterospira nucleophila</i>	pag. 43
4. THE IMMUNE SYSTEM OF TELEOST 1. Lymphohematopoietic organs and tissues 2. Innate immune system 3. Acquired immune system	pag. 46
Objectives	pag. 71
Chapter 1. Acquired protective immune response in a fish-myxozoan model encompasses specific antibodies and inflammation resolution <i>(Fish Shellfish Immunol. 90:349-362, 2019, doi: 10.1016/j.fsi.2019.04.300)</i>	pag. 75
Chapter 2. Water temperature, time of exposure and population density are key parameters in <i>Enteromyxum leei</i> fish-to-fish experimental transmission <i>(J Fish Dis. 43(4):491-502, 2020, doi: 10.1111/jfd.13147)</i>	pag. 117
Chapter 3. Passive immunization delays disease outcome in gilthead sea bream infected with <i>Enteromyxum leei</i> (Myxozoa), despite the moderate changes in IgM and IgT repertoire <i>(Front. Immunol. 11:581361, 2020, doi: 10.3389/fimmu.2020.581361)</i>	pag. 143
Chapter 4. Unveiling <i>Enteromyxum leei</i> (Myxozoa) profilactic and diagnostic peptides from RNAseq data <i>(Unpublished)</i>	pag. 183
Chapter 5. <i>Enterospira nucleophila</i> (Microsporidia) in gilthead sea bream (<i>Sparus aurata</i>): Pathological effects and cellular immune response in natural infections <i>(Vet Pathol. 57(4):565–576, 2020, doi: 10.1177/0300985820927707)</i>	pag. 217
Chapter 6. Experimental horizontal transmission of <i>Enterospira nucleophila</i> (Microsporea: Enterocytozoonidae) in gilthead sea bream (<i>Sparus aurata</i>) <i>(Submitted to the Journal 'Animals')</i>	pag. 243
Conclusions	pag. 271