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| N° ECUE | **XA4S613** | | | | | | | | |
| Title | **Aquatic microbiology** | | | | | | | | |
| ECTS |  | Lecture(h)  CM : **22.5 h** |  | Tutorials (h)  TD |  | Pratical works (h) TP : **15 h** |  | Project (h) |  |
| Description:  - Cellular organization of prokaryotes, taxonomy;  - Trophic types and bacterial metabolisms;  - Genome organization, DNA replication, genetic modifications and gene expression in prokaryotes;  - Aquatic viruses and protists (protozoa and microalgae): morphology, life cycles, taxonomy, microbial loop, microorganisms role within aquatic food webs and ecosystems;  - Waterborne pathogens and contamination cycle in the environment;  - Microplastics threats in the aquatic food chain;  - Cultivation methods of microorganisms and diagnosis of microorganisms of health interest. | | | | | | | | | |
| Key Words | Microorganisms, bacteria, virus, protists, microbial ecology, waterborne pathogens. | | | | | | | | |
| Type of Evaluation | Two final tests (1h30, 2h) : 1.5 ECTS  Practical courses : final test (55%) and 3 reports (45%) : 1 ECTS | | | | | | | | |