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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 |