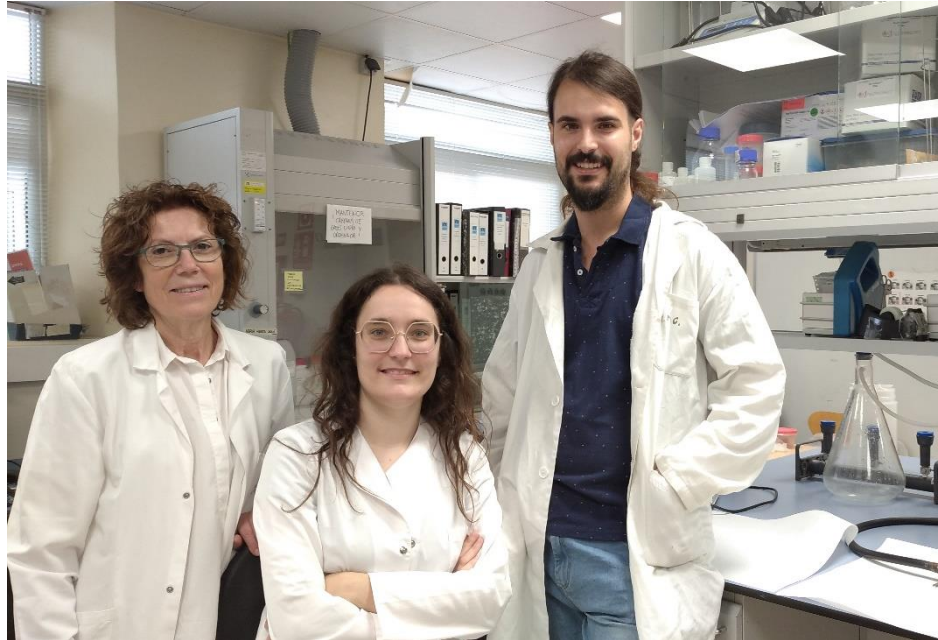


Team name and photography:

Unitat Microbiologia, Universitat Rovira i Virgili



Brief description

The Microbiology Unit of the Faculty of Medicine and Health Sciences of the Rovira i Virgili University has extensive experience in the study of bacteria potentially pathogenic for animals and humans associated with the aquatic environment, such as *Aeromonas*, *Aeromonas*, or *Legionella*. Research with bacteriophages has been established recently in our group, the main objectives being the isolation and characterization of specific bacteriophages of these bacteria, to analyze their usefulness for the elimination of bacterial biofilms, as well as its potential use as an alternative for the infections treatment.

Group Members: Isabel Pujol Bajador, Ana Fernández Bravo, Roberto Monllor Guerra.

Research topics: Water-associated bacteria, Pathogenicity, Biofilms.

Recent articles:

- Guerra, R. M., Maleno, F. D., Figueras, M. J., Pujol-Bajador, I., & Fernández-Bravo, A. (2022). Potential Pathogenicity of *Aeromonas* spp. Recovered in River Water, Soil, and Vegetation from a Natural Recreational Area. *Pathogens* (Basel, Switzerland), 11(11), 1382. <https://doi.org/10.3390/pathogens11111382>

- Fernández-Bravo, A., Vega-Sánchez, V., Pérez-Cataluña, A., Latif-Eugenín, F., Beaz-Hidalgo, R., Martínez-Murcia, A., Soriano-Vargas, E., Cabrero-Martínez, O. A., Castro-Escarpulli, G., & Figueras, M. J. (2022). First Record of the Rare Species *Aeromonas lusitana* from Rainbow Trout (*Oncorhynchus mykiss*, Walbaum): Comparative Analysis with the Existing Strains. *Pathogens* (Basel, Switzerland), 11(11), 1299. <https://doi.org/10.3390/pathogens11111299>
- Fernández-Bravo, A., & Figueras, M. J. (2022). Immune Response of the Monocytic Cell Line THP-1 Against Six *Aeromonas* spp. *Frontiers in immunology*, 13, 875689. <https://doi.org/10.3389/fimmu.2022.875689>

Research projects:

- Bioinspired smart nanoparticles with nanomechanical and photodynamic antimicrobial activity (NANOPHOAM). MINISTERIO DE CIENCIA E INNOVACIÓN. Convocatoria 2020 Proyectos de I+D+i - RTI Tipo Coord. Referencia: PID2020-114347RB-C31

Doctoral Thesis:

- Roberto Monllor Guerra. Pathogenic characterization of the genus *Aeromonas* and other bacterial genera of clinical interest (in progress).

Web site

<https://www.urv.cat/html/grupsrecerca/general-G9.php>