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CYANOTOXINS IN IRRIGATION WATERS:

Surveillance, Risk Assessment, and Innovative Remediation Proposals



TOXICROP aims to cover knowledge gaps and concerns raised related with the use of raw waters contaminated with cyanobacteria and cyanotoxins in crop irrigation and established the following specific objectives:



OBJECTIVE 5

Refining the design, performance and operation of CWs and MSL models,for specific treatment of raw waters contami nated with toxic cyanobacteria blooms

¹CW - Constructed Wetlands ²MSL - Multi-soil-layering

Work Packages

- **WP1** (Ethics requirements)
- WP2 (Management and coordination)
- WP3 (Risk assessment of eutrophic waters in agriculture – field monitoring studies)
- **WP4** (Risk assessment of eutrophic waters in agriculture experimental ecotoxicology studies)
- WP5 (Cyanotoxin identification and quantification and development of new tools for toxin analysis)
- **WP6** (Eco-technologies for water treatment)
- WP7 (Dissemination and communication)

mpact

- 1. TOXICRP will generate ideas and will initiate new lines of research and innovation devoted to biotechnological applications of cyanobacteria in agriculture, water treatment technologies and toxin analysis and monitoring.
- 2. Fundamental knowledge production in the fields of environmental risk assessment, risk assessment, environmental monitoring, crop protection, food safety and water treatment technologies.
- **3.** The results and conclusions of this Project should lead to guidelines concerning the limits of cyanotoxins in irrigation waters, and guidelines for water management and farming.
- 4. Production of scientific applicable knowledge about cyanotoxins in irrigation waters