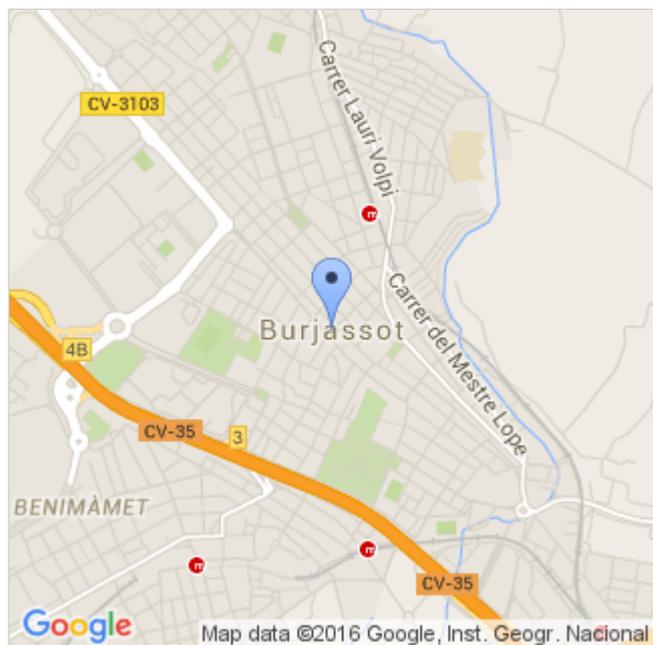


Expression of Interest



Contact Person/Scientist in Charge

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Universitat de València – Estudi General

Department / Institute / Centre

- **Name:** Environmental and Food Safety Research Group (SAMA-UV) / Centre of Research on Desertification (CIDE) /Department of Medicine Preventive/ University of Valencia
- **Address:** Faculty of Pharmacy Av. Vicent Andrés Estellés s/n : 46100 Burjassot
- **Province:** Valencia

Research Area

- Environmental Sciences and Geology (ENV)

Brief description of the institution:

The University of Valencia (UV) stands out as one of the main public research organisations in Spain, with more than three thousand researchers integrated in 90 departments, 19 institutes and other research units belonging to social, biomedical, human, experimental and formal sciences. Along with human resources, the UV state-of-art premises and facilities, guarantee the quality of a vast scientific and technological offer available to the service of society.

The UV is a leading academic organisation at national level. Shanghai 2014 ranks UV among the top 200-300 universities in the world, and 4th best university in Spain. As per URAP 2014, the University of Valencia ranks third among all Spanish universities, first in Valencia region and 193th in the world.

University of Valencia is participating in several European projects under the subsequent RTD European Framework Programmes (I to VIII) and other European programmes: Erasmus, Leonardo, Life+, Cost, Third

Health Programme, EEA Grants, Daphne III, Creative Europe... acting as several roles: coordinator, contractor, associated contractor, member, host institution... having experience in the development and management of more than 300 European projects as a whole.

UV participated in 78 community actions financed under the VII FP (CSA, Collaborative Projects, MSCA, ERC grants, etc.) with the role of coordinator in 29 of them. Currently, we are participating in 20 projects financed under Horizon 2020, with the role of coordinator in 8 of them, and 16 projects under several European Programmes other than H2020

Brief description of the Centre/Research Group (including URL if applicable):

The SAMA-UV is mainly devoted to environmental and food science and provides leading-edge market research and analytical services. Within the PTA, their activities are carried out in the areas of:

- Advance analytical technique to determine organic contaminants.
- Monitoring of selected non-regulated (emerging) and regulated contaminants in surface water, sediment, and biota. Assessment of their spatial and temporal trends in relation to water quality
- Study of the occurrence, transport, fate and bioavailability of priority and emerging contaminants in water soil and biota.
- Sources and transfer of emerging and persistent pollutants (POPs), bioaccumulation and biomagnification.
- Environmental risk assessment • Study of fate and behavior of emerging contaminants during wastewater treatment
- Evaluation of the effects of artificial recharge on the water quality. Studies on the natural attenuation of emerging in the aquatic environment. Estimation of the in-stream attenuation rates of emerging in surface waters
- Development of environmental forensic and waste water epidemiology

The group has available advanced mass spectrometry instrumentation to develop its tasks.

Project description:

The management of the natural capital of fluvio-littoral Mediterranean landscapes, and the flow of ecosystem services that are generated, are key concepts for the functionality and sustainability of these areas. One of the main problems associated with the implementation of any management system is to determine the interrelations between specific human activities, their associated risks, and the possible effects on the ecosystem components in a way that allows managers to set priorities and to ensure the sustainability of resources and services, as well as to assess their monetary costs.

The objective of the project is to develop a decision support tool that integrates a conceptual spatial model based on the geographical information systems (GIS), to identify the critical points and predict the potential impacts of structural and emerging contaminants on natural assets (water, soils, sediments, and biota), applying a forensic perspective, and then establishing the actual and potential risk they pose to the natural capital and ecosystem services of the study area, and obtaining also the economic valuation of environmental externalities.

The project tries to develop and show the usefulness of such a tool for habitats management and the mitigation of their vulnerabilities, which guarantee the conservation of the natural assets and the flow of ecosystem services. On the other hand, the developed methodology will be flexible, in order to be applied effectively to other landscapes.

Applications

People interested should submit their CV no latter than June 14th