

Network for
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Network for Cincinnati EPA Trainees
The Cincinnati Student/Post Doctoral Association

November 10th 10:00 am / AWBERC Auditorium

NCET *presents*

Professor Damia Barcelo
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Director of ICRA
Spain

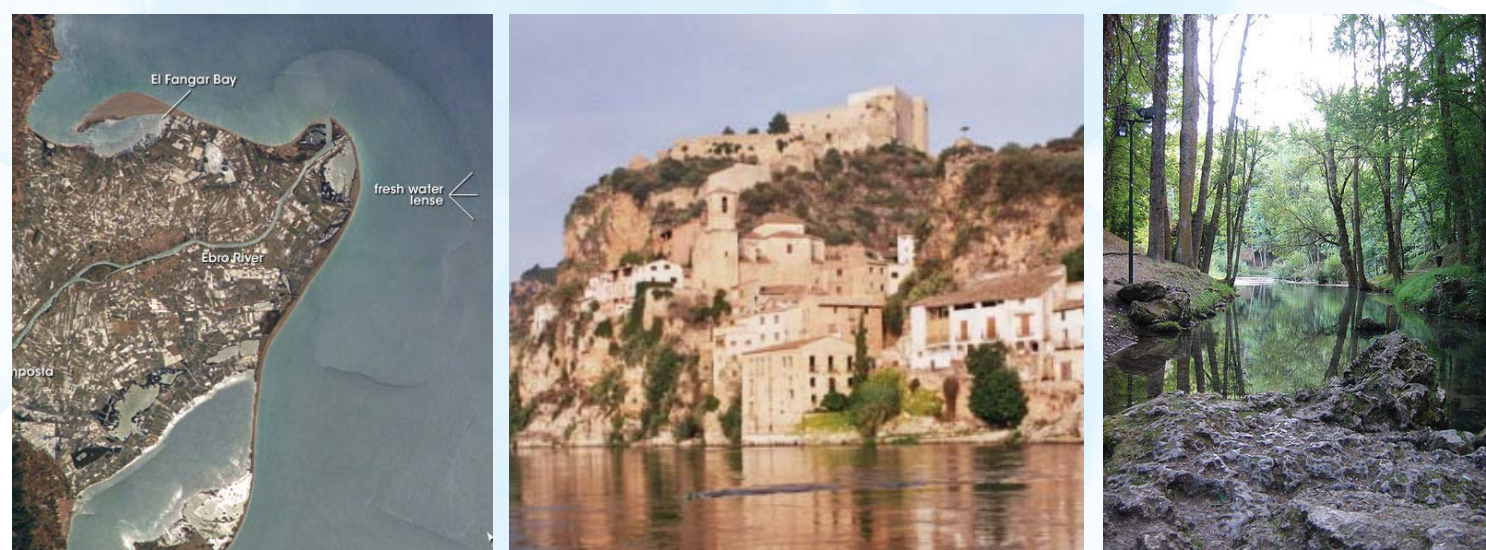


Fate and risk of pharmaceuticals and illicit drugs in the Iberian river basins of Ebro and Llobregat:

Challenges and Solutions Using Advanced Treatment Technologies

This presentation summarizes the findings of several studies and monitoring programmes conducted with the aim of getting a better insight about the sources and fate of pharmaceuticals and illicit drugs in NE Spain. The presence of pharmaceutically active compounds and illicit drugs is discussed in relationship to their removal in WWTPs, influence of hydrological conditions in the receiving river waters, sediments and dilution factors. The risk posed by these emerging contaminants in both surface and effluent wastewaters was assessed towards different aquatic organisms (algae, daphnids and fish) by determining the hazard indexes.

Advanced treatment technologies such a pilot-scale membrane bioreactor and photocatalytic treatment are being investigated for the removal of selected pharmaceuticals such as acetaminophen and atenolol and the illicit drugs cocaine and methadone. Finally, the identification of major intermediate products produced using different advanced technologies as well as the toxicity evaluation will also be shown in this presentation.



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For more information or set up a time to meet with Professor Barcelo, please contact:
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