

## **Title of the presentation:**

**“Microbial Electrochemical Technologies: from bioremediation to microbial electrosynthesis”.**

Climate change and future depletion of resources are two of the most important environmental challenges that humankind has ever faced. Dr. Puig pretends to put forward sustainable technology-based electron-driven microbial reactions giving a second chance to contaminated water and recalcitrant carbon dioxide (CO<sub>2</sub>) streams.

His talk will have parts:

- “Water recovery is a need not a wish”. Water and energy are essential interrelated resources for sustainable development, whose demands are expected to increase in the next decades. Dr. Puig will present his recent experiences on electro bioremediation of contaminated water as potential drinking water.
- “BioElectroCarbon recycling: from greenhouse gas to commodities”. Dr. Puig will talk about resilience and sustainable biorefinery concept based on electron-driven microbial reactions for the production of commodities (biofuels, building blocks) with renewable electricity and recalcitrant CO<sub>2</sub> from industrial sources.