

Abstract book

First EMBO Conference on Aquatic Microbial Ecology – SAME13

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AQUATIC MICROBIAL ECOLOGY



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THURSDAY 12 SEPTEMBER 2013, 17:30

PS-8. Bacterial biogeography and dispersal in a changing world

PS-8.17. MAP OF 3D DISTRIBUTION OF HYDROCARBONOCLASTIC BACTERIA IN MEDITERRANEAN SEA

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The obligate hydrocarbonoclastic bacteria (OHCb) has been recognized and shown to play a significant role in the biological removal of hydrocarbons from polluted marine waters. The introduction of oil or hydrocarbons into seawater leads to successive blooms of a relatively limited number of indigenous marine bacterial genera (*Alcanivorax*, *Marinobacter*, *Thalassolituus*, *Cycloclasticus* and *Oleispira*) which are present at low or undetectable levels before the polluting event. The types of OHCb that bloom depend directly from level and type of pollution and from parameters as the latitude/temperature, salinity, redox etc.... In this work, using data present in GeneBank we have create a virtual map of 3D distribution of OHCb in Mediterranean Sea according to physical-chemical factors.