PROJECT FINAL REPORT

Grant Agreement number: GA266473

Project acronym: ULIXES

Project title: "Unravelling and exploiting Mediterranean sea microbial diversity and ecology

for xenobiotic's and pollutants' clean up"

Funding Scheme: CP

Period covered: 01/02/2011 to 31/01/2014

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¹ The home page of the website should contain the generic European flag and the FP7 logo which are available in electronic format at the Europa website (logo of the European flag: http://europa.eu/abc/symbols/emblem/index en.htm logo of the 7th FP: http://ec.europa.eu/research/fp7/index en.cfm?pg=logos). The area of activity of the project should also be mentioned.

This document include all the figures and tables that are cited in the text of the section "Description of the main S&T results/foregrounds" within the publishable summary of the project ULIXES.

WP2. Sampling and chacterization of the Mediterranean Sea sites.

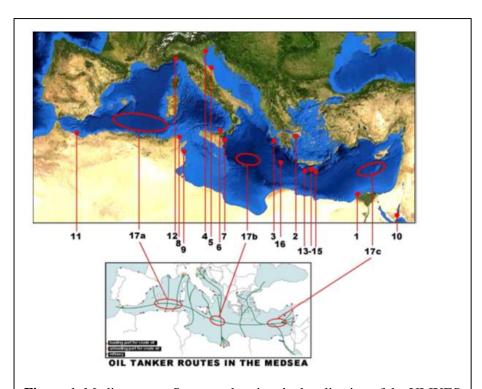


Figure 1. Mediterranean Sea map showing the localization of the ULIXES sampling. Site 1, El-Max district, Alexandria, Egypt; site 2, the Elefsina Gulf, Attika, Aegean Sea, Greece; site 3, the wetlands of Keri in Zakynthos, Ionian Sea, Greece; site 4, the Venice Lagoon, Adriatic Sea, Italy; site 5, the Ancona harbour, Adriatic Sea, Italy; site 6, the Milazzo harbour, Tyrrhenian Sea, Italy; site 7, the Augusta Bay, Ionian Sea, Italy; site 8, the Bizerte Lagoon, Sicily Channel, Tunisia; site 9, the Sebkha of Soliman, Cap Bon peninsula, Tunisia; site 10, the Aqaba Gulf, Red Sea, Jordan; site 11, the lagoon of Mar Chica, Morocco; site 12, Shipwreck: sunk tanker Haven; Sites 13, 14, 15, 16, natural deep-sea hydrocarbon seepage sites: Olimpi, Amsterdam and Kula mud volcanoes and the hypersaline mud pit of the Urania deep anoxic basin; sites 17a, 17b, 17c, three transects plotted against the oil tanker routes in the whole area of Mediterranean Sea.

Area	Code	Num. Samples	Partner
El-Max district, Alexandria, Egypt	Site 1	19	MUCSAT
Elefsina area, Greece	Site 2	8	TUC
Zakynthos area, Greece	Site 3	6	TUC
Venice Lagoon, Italy	Site 4	7	UNIBO
Ancona Harbour, Italy	Site 5	15	ETS

Priolo Gargallo, Italy	Site 6	2	IAMC-CNR
Harbour of Messina, Italy	Additional Site 1	1	IAMC-CNR
Bizerte Lagoon, Tunisia	Site 8	4	UTUN
Sebkha of Soliman, Tunisia	Site 9	1	UTUN
Oued Hamdoun-Monastir, Tunisia	Additional Site 2	1	UTUN
Gulf of Aqaba, Jordan	Site 10	4	YU
Mar Chica, Morocco	Site 11	15	UH2C

Table 1 - List of samples and sampling area investigated during 1-18 months of WP2

Area	Code Site	Num. Samples	Partner
Gela Refinery, Italy	Addition Site 3	3	IAMC-CNR
Eleysina Refinery, Greece	Site 2	1	TUC

Table 2 - List of samples and sampling area investigated during 19-36 months of WP2

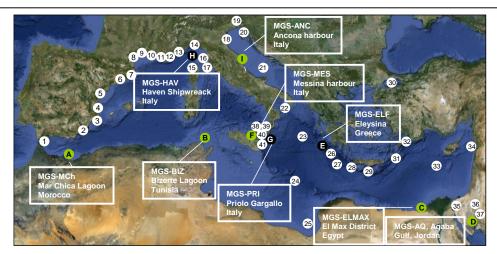
Area Oceanographic Cruise	Code	R/V	Period
Mediterranean Sea	Ulixes M11	Meteor	April 2011
Eastern Mediterranean Sea	Ulixes U11-1	Urania	September 2011
Central Western Mediterranean Sea	Ulixes UEU	Urania	April 2012
Central Western Mediterranean	Ulixex UBO	Urania	November 2011

Table 3 - List of the organized oceanographic cruises for sampling open and deep sea Mediterranean Sea sites.

Area	Code	Num. Samples	Partner
Shipwreck Haven	Site 12	2	IAMC-CNR

Table 4 - List of samples collected during directed sampling in open and deep sea Mediterranean Sea area.

WP5. Metabolome analysis of the microbiome associated to selected polluted sites



Samples for which uric acid and ammonium microcosms were produced and DNA sequenced

Figure 2. Location of the polluted sites investigated. Each site is indicated by a green or a red dot; the ID, the name of the site and the countries are included in the correspondent box. A survey on the marine sites around Mediterranean Sea sites where microbiological studies have been done, are also shown by white dots. The figure was adapted from Daffonchio et al. (*New Biotechnology* 2013, 30:743-748) and was prepared using Google Earth and includes studies that were published in 2011–2012 (using the SCOPUS, PubMed and WOK databases). For number code descriptions see Daffonchio et al. (*New Biotechnology* 2013, 30:743-748).

WP6. Microbial metagenomics and proteomics of the polluted sites

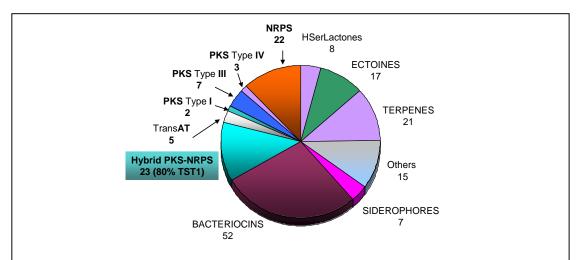


Figure 3. Type distribution of producing secondary metabolites identified in the pyrosequences produced within ULIXES consortium using AntiSMASH.