

### MICROARRAY FOR THE DETECTION OF TOXIC ALGAE

One of the main results from the Midtal project is the Microarray for the detection and quantification of Harmful Algal Bloom forming species. Current monitoring methods involve the use of Microscopy as well as QPCR etc, however there is a NEED for a more efficient and effective method of identification of HAB species.

### The Midtal Microarray:

The Major benefits

<b>FAST</b>	Results in 3 hours
<b>CHEAP</b>	As little as €40 per sample including a technical replicate
<b>BROAD SCOPE</b>	147 probes per microarray, allowing for up to 10 higher taxon, 18 genera and 51 species or combinations of species for <i>Pseudo-nitzschia</i> to be identified and their relative abundances
<b>SEMI-QUANTIFYABLE</b>	Quantifiable to 250 cells per litre
<b>DECREASED LEVEL OF FALSE POSITIVES AND IMPROVED RELIABILITY</b>	Due to the built in Hierarchy of each species (Species, Genus, Family)
<b>DATABASE ALLOWS FOR TRACEABILITY OF HABS SPECIES AND THEIR OCCURANCES</b>	Online database where results can be uploaded and compared using filtersprobes, location, date etc

A FP7 funded research project running for 45 months, MIDTAL held its final training workshop in Naples, Italy from the 16-17th April 2012. This was the main opportunity to showcase the Microarray and Molecular Techniques defined within MIDTAL to a broad audience made up of National monitoring agencies, Research institutes and Post graduate students. The overall reception was very favourable, with many positive remarks and affirmations of the high quality results achieved in MIDTAL. This can also be recognised by the commercialisation of the Microarray which is currently underway. For more information, please see below.



### WEBINAR

An opportunity to discuss the Midtal Microarray with the Project co-ordinator and partners.

**DATE:** 12<sup>th</sup> June 2012

**TIME:** 11:00 am CET

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