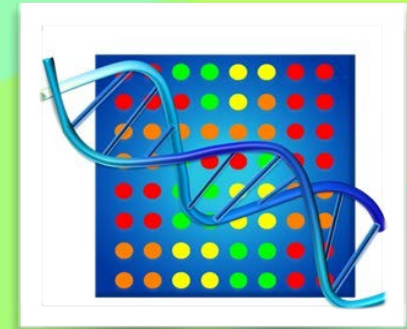


Brokerage Event

Food Security | Sustainable Agriculture and Forestry |
Marine, Maritime and Inland Water Research |
Bioeconomy | KET-Biotechnology |

Brussels, 15th November 2017



Blue Growth + KET Biotechnology

Innovative Solutions for the Detection of Toxic Microorganisms

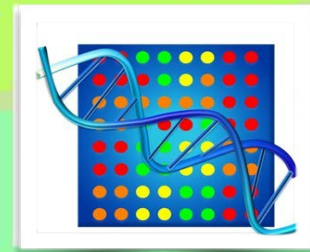
Carmem-Lara Manes

Microbia Environnement



www.ncp-biohorizon.net

BioHorizon project is funded by the European Commission - Grant Agreement no. 652637

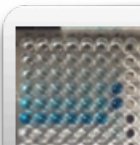


Molecular Diagnosis for Environmental Microbiology

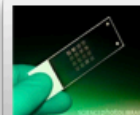
TECHNOLOGICAL PLATFORM

MAIN TARGETS

molecular biology
microbiology
microfluidic
bioinformatics
genetic barcoding
electrochemistry



Color Tests



Microarrays

Patent no.
PCT/GB2013/051938



LOC



Automated
Analyser

Toxic Microalgae

Alexandrium

Dinophysis

Pseudo-Nitzschia

⋮

Toxic Cyanobacteria

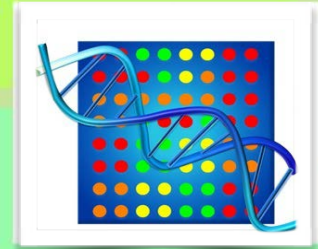
Microcystis

Nodularia

Planktothrix

⋮

CUSTOM



BG-05-2019: Multi-use of the marine space, offshore and near-shore: pilot demonstrators

- demonstrators for biosensors developed in the framework of OoT

LC-BG-03-2018: Sustainable harvesting of marine biological resources

- cost-effective and environmentally sustainable resource management tools
- foster innovation for food and nutrition security and other bio-based value chains, biodiversity preservation and climate resilience

DT-BG-04-2018-2019: Sustainable European aquaculture 4.0: nutrition and breeding

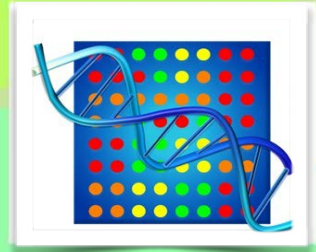
- contribute to the creation of improved sustainable aquaculture systems and implement productive and resilient aquaculture practices that maintain healthy aquatic ecosystems and strengthen capacity for adaptation to climate change, by 2020 (UN SDG 2)

Relevant work:

- **SMS (2013-2017) EU-FP7 “Sensing toxicants in marine waters make sense using biosensors” (Grant agreement no: 613844)**
- **MICROAQUA (2011-2014) EU-FP7 “Universal microarrays for the evaluation of fresh-water quality based on detection of pathogens and their toxins” (Grant agreement no: 265409)**

Keywords: microbial detection tests, geno-sensors, microbial diversity, molecular bio-indicators, toxic microorganisms, water quality





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