



Sensing toxicants in Marine waters makes Sense using biosensors

2nd WORKSHOP ON BIOSENSORS FOR WATER MONITORING

April 08-10, 2015, University of Roma, Italy

جامعة الحسن الثاني بالدار البيضاء
UNIVERSITÉ HASSAN II de CASABLANCA



April 08th 2015

14:00 Registration Aula Seminari

14:45 Welcome (*Prof. Silvia Licoccia, Pro Rector of Tor Vergata University and Head of Chemistry Department, and Prof. Pietro Masi, delegated by the Rector for Spin-off, Start-up and Patents*)

Session 1. General consideration on fabrication of biosensors and related platforms

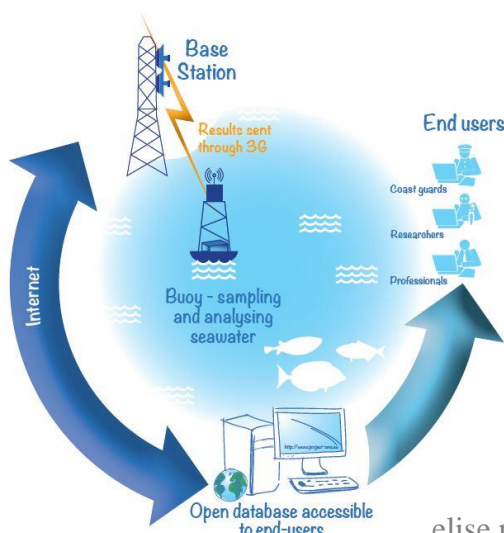
15:00-15:30: DNA-based biosensors: principles and methods (*Prof. Ricci*)

15:30-16:00: Electrochemical sensors: principles and applications (*Prof. Amine A.*)

16:00-16:30: Discussion and coffee-break

The SMS project promotes the development of novel sensing devices for marine environmental protection. SMS is expected to have a major impact on marine water end-users and relevant stakeholders.

Running from 2013 to 2017, SMS will deliver a novel automated networked system that will enable real-time in-situ monitoring of marine water chemical and ecological status in coastal areas by the detection of a series of contaminants. The pollutants specifically targeted by the project have been indicated as having priority for quality control of seawater. They cover a wide spectrum of regulated chemicals that have detrimental effects on the marine environment such as the algal toxins, the antifouling pesticides, flame retardants and pharmaceuticals that will be measured using innovative probes.



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16:30-18:00:

a) Algal toxin detection: state of art and development of novel biosensing platform (*Dr. Porchetta, Dr. Petropoulos, Dr. Rossetti, Dr. Micheli*)

b) Electrochemical and colorimetric sulfonamide detection (*Prof. Amine, Dr. A. Ait Lahcen, Dr. S. Ait Errayess*)

18:00-18:30: Discussion

April 09th 2015 - Analytical Chemistry Laboratories (Settore 5 Livello 0)

Session 2. Demonstrations (parallel groups)

10:00-13:00 : DNA-based biosensors: optical and electrochemical platform

Instructors: Dr. Petropoulos, Dr. Rossetti, Dr. Porchetta, Dr. Idili

10:45-11:15: Coffee break

13:00-14:30: Lunch

14:30-18:00: Colorimetric and Electrochemical tests for sulphonamide detection

Instructors: Prof. Aziz Amine, A. Ait Lahcen, S. Ait Errayess

15:45-16:15 Coffee break

20:30: Dinner “Osteria La Gensola”, Piazza della Gensola 15, Roma

April 10th 2015 - Analytical Chemistry Laboratories (Settore 5 Livello 0)

10:00-13:00: Enzymatic-based detection and immunodetection of okadaic acid and saxitoxin

Instructors: Prof. Micheli, Dr. Volpe, Dr. Petropoulos

11:30-11:30: Coffee Break

