



Marine Micr'Omics for Biotech Applications

Micro B3 - MaCuMBA - PharmaSea - Industry Expert Workshop

PharmaMar, Colmenar Viejo, Spain, 30 - 31 March 2015

The enormous microbial biodiversity of marine environments offers an almost unlimited resource of enzymes and bioactive compounds. In line with the development of innovative bioinformatics tools for (meta)genomics analysis based on high-throughput methods, application options of marine microbial knowledge in industry and medicine are rapidly increasing.

This second Industry Expert Workshop under the lead of the Ocean of Tomorrow project Micro B3 brings together academic and industrial scientists. It aims to further the exchange of current approaches for the discovery of novel microbial strains, bioactives and engineering of marine-derived biocatalysts with the help of bioinformatics tools. Opportunities and challenges for understanding complex genome data and their application to discover new enzymes and bioactive compounds will be discussed.

Four focused sessions and a cross-sectorial panel discussion are planned:

- 1) Natural products based on marine biodiversity (Dr. Fernando de la Calle)
- 2) Environmental biotechnology through marine microbial knowledge (Prof. J. L. Ramos)
- 3) Bioinformatic tools and methods for innovative blue biotechnology (Dr. R. Kottmann)
- 4) New strategies for high throughput isolation of novel marine microorganisms (Prof. L. Stal)
- 5) Panel discussion on bioactives of marine origin: opportunities and challenges (Prof. M. Jaspars)

Invited Speakers

Prof. Carlos Pedrós Alió (ICM-CSIC, Barcelona); Prof. J. Antonio Salas (Univ. of Oviedo); Dr. Fernando Reyes, (Fundación MEDINA, Granada); Dr. Beatriz Galán & Prof. Jose Luis Garcia (CIB-CSIC, Madrid); Dr. Simon Munt PharmaMar; Prof. Juan Luis Ramos (Abengoa); Dr. Alexander Wentzel (SINTEF, Trondheim); Prof. Manuel Ferrer (CSIC-ICP, Madrid); Dr. Jose Miguel Seoane (REPSOL, Madrid); Dr. Pablo Pomposiello Miravent (CEO BAcMine, Madrid); Dr. Marnix Medema (Univ. Wageningen); Dr. Antonio Fernandez-Guerra (MPI Bremen/Uni Oxford); Tom v.d. Bergh (Bio-Product, Nijmegen); Prof. Jörg Overmann (DSMZ, Braunschweig); Caroline von Kries (Environmental Law, Univ. Bremen); Dr. Colin Ingham (MicroDish, Utrecht), Dr. Helena Vieira (Marine Biotech Expert, University of Lisbon)

Venue

PharmaMar,

Avd. Los Reyes, 1
28770 Colmenar Viejo
Madrid (Spain)

Scientific Committee

Fernando de la Calle, PharmaMar
Juan Luis Ramos, Abengoa & Bio-Iliberis
Renzo Kottmann, MPI Bremen
Lucas Stal, NIOZ
Marcel Jaspars, Univ. Aberdeen
Johanna Wesnigk, EMPA Bremen (Micro B3, Dissemination & Training)

Organisation Committee

Fernando de la Calle, PharmaMar

Amalia Roca, Bio-Iliberis

Johanna Wesnigk, EMPA Bremen (Micro B3, Dissemination & Training)

Elena Garcia Villaescusa, Zeltia (local organisation)

Sandra Nowack, Jacobs Univ. Bremen (registration)

Find information on the **background, draft programme** and **logistics** here:

<http://www.microb3.eu/events/workshops/micro-b3-macumba-pharmasea-industry-expert-workshop>

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