

SEMINAR

It's well known that the ocean hosts a huge biological diversity and entails a barely explored reservoir of multiple active biomolecules with a potential applicability in different fields of human activity, such as health. The process from the taking of samples of marine organisms containing molecules with biological activity until some of them succeed to reach the pharmacology market is highly complex. It requires the use of advanced biotechnological tools and it takes many stages in specialized laboratories, for instance: sample collection and traceability, Activity screening and action mechanism, purification of bioactive compounds, etc. In fact, the aim of this seminar is knowing in depth the genomic strategies (blue biotech) available to assess the biotechnological resources of marine organisms and knowing how the collections of extracts of marine natural products are created and exploited. Additionally we'll tackle other important issues about marine biodiversity such as the present legislation and the access to the marine genetic resources.

The marine environment differs a lot from the terrestrial environment and therefore its biological diversity is very different both in composition as in structure and activity. Evolution has given survival, defense, attack and communication mechanisms to marine organisms allowing them to develop a wide variety of chemical agents exclusively sophisticated. Among them there are molecules with powerful biological activity developed as a natural defense for the survival in an extremely competitive environment.



**BLUE BIOTECHNOLOGY AS A
ROAD FOR INNOVATION ON
HUMAN'S HEALTH.**

**CAPITALIZATION AND
RESULTS OF THE
BLUEHUMAN PROJECT**



PROGRAM



11:30-11:45. WELCOME AND OPENING.

OPENING

Jesús Gamallo

Director-General for External Relations and Relations with the European Union.
Xunta de Galicia

PRESENTATION OF THE BLUEHUMAN PROJECT.

Prof. Rui L. Reis

Universidade do Minho - 3B's Research Group,
I3Bs - Research Institute on Biomaterials, Biodegradables and Biomimetics

11:45-12:05: MARINE ORIGIN BIOMATERIALS FOR TISSUE ENGINEERING: RESEARCH RESULTS.



Tiago H. Silva

Universidade do Minho - 3B's Research Group.
I3Bs - Research Institute on Biomaterials, Biodegradables and Biomimetics



12:05-12:25. MEDICAL DEVICES: RESEARCH RESULTS

Fergal J O'Brien

Head of Tissue Engineering Research Group.
Royal College of Surgeons in Ireland RCSI



12:25-12:45. MARINE INGREDIENTS FOR COSMETICS, WELL-BEING, AND HEALTHCARE PRODUCTS: RESEARCH RESULTS



Gwenaëlle Le Blay

Université de Bretagne Occidentale - LEMAR - IUEM

12:45-13:05. HANDS-ON BLUE BIOTECHNOLOGY BUSINESS



Andrew Mearns Spragg

Director of Scientific Research. Jellagen Pty Ltd.



13:05-13:20. BREAK

13:20-14:00. BLUEHUMAN CAPITALISATION RESULTS AND NEXT STEPS



Isabel Cabaleiro. Project technician

European Grouping for Territorial Cooperation Galicia-North of Portugal (GNP-AECT)

14:00. CLOSURE

online assistance
REGISTRATION LINK

<https://cetmar.org/seminarios/????>

