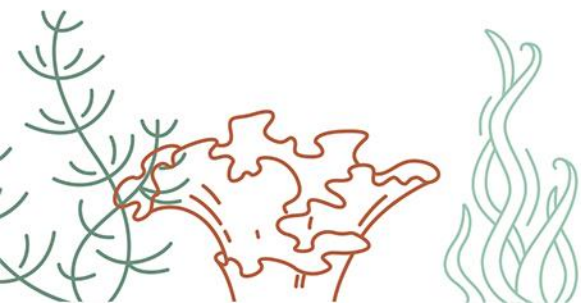


Presentation of the BLUEHUMAN Project

Julio Maroto Leal
CETMAR

9th November, 2018





BLUE biotechnology as a road for innovation
on **HUMAN's** health aiming Smart
growth in **Atlantic Area**



Consortium

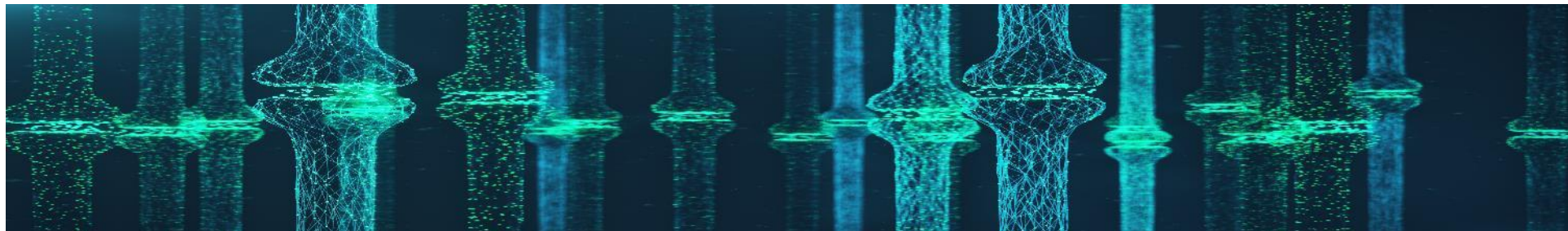
1. Universidade do Minho.
2. Centro Tecnológico del Mar – Fundación CETMAR.
3. Centro Interdisciplinar de Investigação Marinha e Ambiental CIIMAR
4. Instituto de Investigaciones Marinas, Consejo Superior de Investigaciones Científicas.
5. Université de Bretagne Occidentale UBO
6. YSLAB
7. Universidade do Algarve UAL
8. Universidad de Vigo UVIGO
9. Royal College of Surgeons in Ireland RCSI
10. Universidade da Madeira UMA
11. JELLAGEN
12. SURGACOLL Technologies Limited
13. Agrupación Europea de Cooperación Territorial Galicia Norte de Portugal GNP-AECT
14. Axencia Galega de Innovación GAIN
15. Agência Nacional de Inovação ANI
16. Agencia Estatal de Investigación (MINECO)



Goals

The BlueHuman project is developed in the field of marine resources valorization (including fisheries by-products) and by using the tool of blue biotechnology aims at improving the current procedures and to obtain high added value products in biomedicine.

- To start structured and permanent collaborations between research centers and companies.
- To foster the use and exploitation of marine biological resources from the European Atlantic coast.
- To contribute to the development of a Sustainable Smart Growth as expressed in the EUROPE2020 Strategy.
- To develop a critical mass in the area, represented by a significant but disconnected number of research groups and companies.



Research and Innovation Lines

❑ Marine origin biomaterials for tissue engineering

Hydrogels based in jellyfish collagen for cartilage therapies

Functionalization of biomaterials with delivery devices for cartilage regeneration

Blends of marine origin collagen and chondroitin sulfate for encapsulation of chondrocytes and stem cells.

Blends of marine origin biopolymers as platforms for wound regeneration.

❑ Medical devices

Scaffolds of shark collagen and shark calcium phosphates for bone regeneration.

Functional scaffolds based in collagen-based composites.

Trilayered scaffold based in marine origin materials for regeneration of osteochondral defects.

Dressings for skincare application, as wound protection.

Marine ceramics for bone tissue therapies.

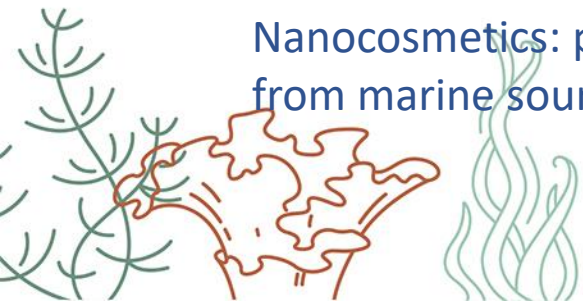
❑ Marine Ingredients for cosmetics, well-being and healthcare products

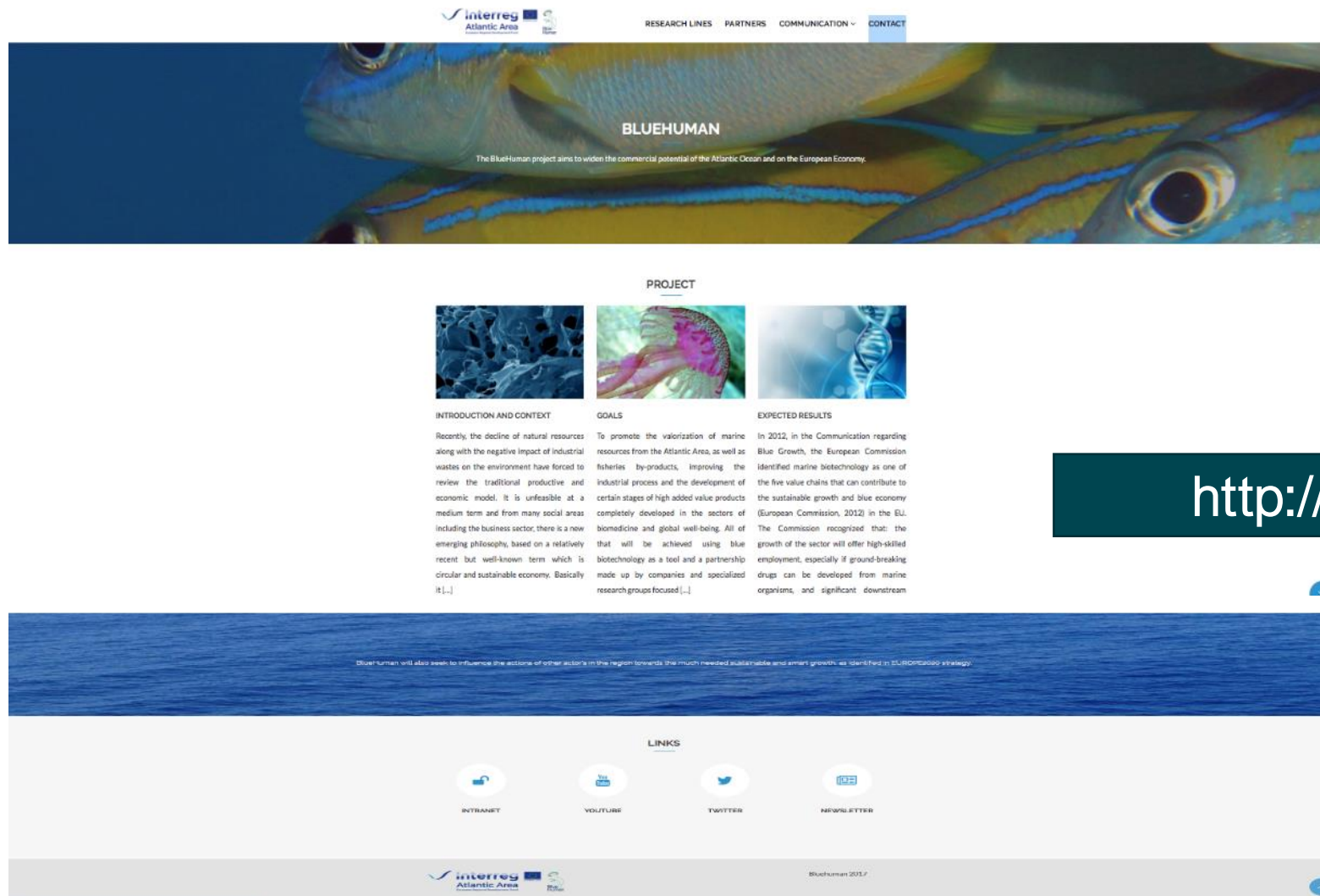
Extracts from marine resources with bone anabolic properties

Extracts from marine resources with anti-oxidant, antimicrobial and/or anti-biofilm activities.

Extracts from marine resources with anti-obesity activity.

Nanocosmetics: particles for delivering collagen (gelatin) and hyaluronic acid hydrolysates from marine sources.





Project Website

<http://bluehuman.cetmar.org>




Interreg
Atlantic Area
European Regional Development Fund

 
Blue Human

Newsletter BLUEHUMAN PROJECT


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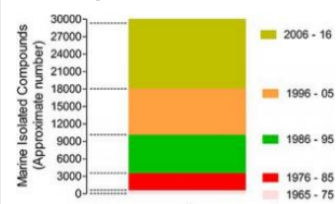
Isolation and Chemical Characterization of Chondroitin Sulfate from Cartilage By-Products of Blackmouth Catshark (*Galeus melastomus*)

Compartido por Tecnología Productos P...

 www.mdpi.com - Abstract Chondroitin sulfate (CS) is a glycosaminoglycan actively researched for pharmaceutical, nutraceutical and tissue engineering applications. CS

From Marine Origin to Therapeutics: The Antitumor Potential of Marine Algae-Derived Compounds

Compartido por Tecnología Productos P...   



www.frontiersin.org - Natural products (NPs) have been used as therapeutic agents for the treatment of a wide

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Thank you very much
Muchas gracias

