





Presentation of the BLUEHUMAN Project

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





Consortium

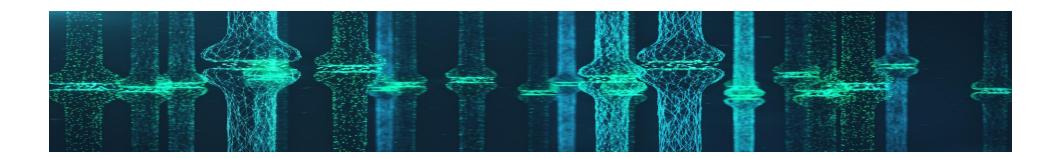
- Universidade do Minho.
- 2. Centro Tecnológico del Mar Fundación CETMAR.
- 3. Centro Interdisciplinar de Investigação Marinha e Ambiental CIIMAR
- 4. Instituto de Investigaciones Marinas, Consejo Superior de Investigaciones Científicas.
- 5. Université de Bretagne Occidentale UBO
- 6. YSLAB
- 7. Universidade 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.
- o To foster the use and exploitation of marine biological resources from the European Atlantic coast.
- o 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

PROJECT





Recently, the decline of natural resources To promote the valorization of marine In 2012, in the Communication regarding research groups focused [...]



along with the negative impact of industrial resources from the Atlantic Area, as well as Blue Growth, the European Commission review the traditional productive and industrial process and the development of the five value chains that can contribute to economic model. It is unfeasible at a certain stages of high added value products the sustainable growth and blue economy emerging philosophy, based on a relatively that will be achieved using blue growth of the sector will offer high-skilled recent but well-known term which is biotechnology as a tool and a partnership employment, especially if ground-breaking circular and sustainable economy. Basically made up by companies and specialized drugs can be developed from marine

http://bluehuman.cetmar.org





Newsletter

https://paper.li/productosmar/1505305279#



Interreg Atlantic Area

European Regional Development Fund



Newsletter BLUEHUMAN PROJECT

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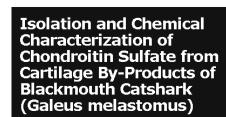
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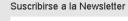


www.mdpi.com Abstract Chondroitin
sulfate (CS) is a
glycosaminoglycan
actively researched
for pharmaceutical,
nutraceutical and
tissue engineering
applications. CS

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



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



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