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FEBRERO MAYO 2025

Noticias

Chinese scientists upgrade resolution of global climate-ocean simulation to 1 km-Xinhua

Fuente: English.news.cn / Fecha: 08/05/2025

Economía azul

A group of Chinese scientists have jointly developed a global ocean circulation model with a horizontal resolution of one kilometer, the Science and Technology Daily reported on Thursday. The ocean serves as a crucial regulator of energy and carbon sinks in the Earth's climate system, absorbing over 90 percent of the additional heat from global warming and more than 30 percent of carbon dioxide emissions by humans, according to the news report. In recent years, with the increasing frequency of extreme climate events, simula...(†)





El mar y la innovación se dan la mano en Oarsoaldea Urdina

Fuente: Azti.es / **Fecha:** 05/05/2025

(Economía azul

La comarca de Oarsoaldea continúa avanzando hacia un modelo económico más sostenible y conectado con los retos del futuro gracias a la iniciativa Oarsoaldea Urdina, impulsada por el centro tecnológico AZTI, la Agencia de Desarrollo Oarsoaldea y la Autoridad Portuaria de Pasaia, con el apoyo financiero del Gobierno Vasco en el marco del programa Berpiztu y la estrategia ZAP (Zonas de Actuación Preferente). Este polo de colaboración está comenzando a consolidarse como un punto focal para el seguimiento de proye...(+)

Ver más...



Nothing goes to waste: Coastal industries are upcycling oyster shells and old fishing nets

Fuente: Euronews.com / Fecha: 29/04/2025

Economía azul

In Arcachon Bay, oyster farming has been practised for centuries, producing some of the world's finest shellfish. But the industry faces a significant challenge – most oysters die before being harvested, as oyster farmer Benjamin Legeron explains: "From the batch of oysters I sorted yesterday, I had 50% mortality, which is already considerable. But some of my colleagues face 80–90% losses, which is truly enormous." This mortality creates thousands of tonnes of shell waste annually. Rather than treating them as rubbish, the regi...(+)

Ver más...



ORN Fellows Will Share Tips on Open Data at Ocean Conference in S. Korea

Fuente: Pulitzercenter.org / Fecha: 28/04/2025

Economía azul

Journalists from the Pulitzer Center's Ocean Reporting Network (ORN), along with experts from data platforms Global Fishing Watch and SkyTruth, will share how they harness open data to uncover and report on human activities at sea. The panel—part of the Our Ocean Conference in Busan, South Korea, April 28-30, 2025—will explore how these collaborations translate complex datasets into powerful stories with real-world impact, highlighting successes, challenges, and key lessons learned along the way. Participant...(+)

Ver más...



Next-generation scientists set sail to harness space for oceans

Fuente: Esa.int / Fecha: 22/04/2025

Economía azul

A new wave of ocean scientists has embarked on an extraordinary six-week voyage aboard a majestic tall ship that set sail today from Norway bound for southern France. But this is no ordinary journey. Thanks to this ESA Advanced Ocean Training Course, these upcoming researchers will be taking a deep dive into ocean science, empowering them with skills to harness satellite data for research, innovation and sustainable development – and preparing them to become tomorrow's leaders and ambassadors for ocean scie...(+)

Ver más...





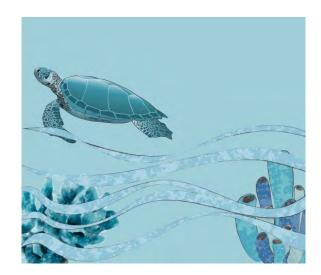
El Aula Criminalidad Azul desarrollará el proyecto MarPITIUS 25

Fuente: Ull.es / Fecha: 07/04/2025

Criminalidad azul

Es una iniciativa interdisciplinar que busca diagnosticar el impacto acumulativo de los vertidos en las aguas de Ibiza. El Aula Criminalidad Azul desarrollará el proyecto MarPITIUS-25, una iniciativa interdisciplinar que busca diagnosticar el impacto acumulativo de los vertidos de desaladoras, EDAR y otros contaminantes sobre las aguas costeras de Ibiza, desde una perspectiva científica, jurídica y ecológica. En este último campo la Universitat Jaume I ya trabaja a través del grupo de investigación Centro de Investigación en...(+)





From Digital Twins to Open Science Projects Linking with the European Green Deal Data Space March 30th, 2025

Fuente: Ocean-twin.eu / Fecha: 30/03/2025

Economía azul

At the recent ESA Digital Twin Earth Components: Open Science Meeting, a poster presentation delivered on behalf of CREAF show-cased three innovative projects—ILIAD, AqualNFRA, and AD4GD—that are at the forefront of integrating digital twin technology with open science initiatives. This presentation, entitled From Digital Twins to Open Science projects linking with the European Green Deal Data Space, was co-authored by Kaori Otsu (CREAF), Ivette Se...(+)

Ver más...



Tomorrow.Blue Economy World Congress

Fuente: Tomorrowblueconomy.com / Fecha: 01/03/2025

Economía azul

Tomorrow.Blue Economy World Congress is the global summit dedicated to promoting and developing the potential of the Blue Economy. After celebrating its last edition within the framework of Smart City Expo World Congress, the event will return from November 4-6, 2025 with an extended program dedicated to advancing this essential sector. As unprecedented political, economic and climate challenges appear on the horizon, the need to accelerate the green transition has grown only more imperative. This is perhaps particularly true of the Blue Economy, which is fully intertwined ...(+)

Ver más...



The hidden costs of PFAS on environmental, legal, and human health risks for businesses

Fuente: Algae-scope.com / Fecha: 25/02/2025

(Biotecnología azul

Per- and polyfluoroalkyl substances (PFAS), often referred to as "forever chemicals," have been widely used in manufacturing due to their resistance to heat, water, and oil. However, this convenience comes at a high cost—one that many businesses, governments and consumers are only now starting to realise. The true cost of PFAS reliance goes beyond just material impacts. Companies across industries are facing serious financial, legal, and reputational consequences due to PFAS-related environmental damage and he...(+)

PINA SPONGUICIO)
VINIS INDENTRES

I solute
I sol

PFAS Cycle

Ver más...

El proyecto HARPOONERS impulsará la descarbonización de los puertos a través de la electrificación total de buques

Fuente: Fundacion.valenciaport.com / Fecha: 07/02/2025

Criminalidad azul

HARPOONERS desarrollará un sistema de almacenamiento de energía a bordo que reducirá las emisiones de CO2 y su impacto ambiental. La iniciativa cuenta con un presupuesto de cerca de 7,5 millones de euros, cofinanciado por el programa Horizonte Europa de CINEA. Se ha celebrado en Bruselas (Bélgica) la reunión de arranque del proyecto de electrificación de buques HARPOONERS 'Achieving high voltage, low weight, efficient electric powertrus(+)

Ver más...



Global Maritime Security: MICA Center Highlights 2024 Threats

Fuente: Maritimescrimes.com / Fecha: 06/02/2025

Criminalidad azul

The Maritime Information Cooperation & Awareness Center (MICA Center) has released its annual report, detailing rising maritime security threats in 2024. The report compiles incidents worldwide, analyzing the impact of geopolitical tensions and growing maritime crime. Escalating Security Challenges. Conflicts in Ukraine and the Middle East have increasingly affected maritime zones, threatening freedom of navigation. In the Red Sea, Houthi rebels targeted 124 vessels, forcing rerouted shipping via the Cape of Good Hop ...(+)

Ver más...



Maritime Piracy in 2025: Navigating Emerging Threats and Regional Resurgences

Fuente: Shipuniverse.com / Fecha: 04/02/2025

Criminalidad azul

As the maritime industry sails into 2025, stakeholders are closely monitoring evolving piracy trends that threaten global shipping lanes. While recent data indicates a decline in overall piracy incidents, emerging hotspots and sophisticated tactics signal a complex security landscape ahead. Current Piracy Landscape. The International Maritime Bureau (IMB) reported 116 piracy and armed robbery incidents against ships in 2024, a slight decrease from 120 in 2023. Despite this downward trend, the number of crew members ta...(+)





IbizaPreservation y la UJI se unen para impulsar un aula pionera de criminalidad azul

Fuente: UJI.es / Fecha: 23/01/2025

Criminalidad azul

El proyecto pretende crear un espacio dedicado al estudio, la investigación y la divulgación sobre daños ecológicos en ecosistemas acuáticos. IbizaPreservation y la Universitat Jaume I de Castelló (UJI) han firmado hoy un convenio para la creación del Aula IbizaPreservation de Criminalidad Azul, «un espacio dedicado al estudio, la investigación y la divulgación sobre daños ecológicos en ecosistemas acuáticos», explican desde ambas entidades. El acto se ha celebrado este miércoles en el Rectorado de la UJI y ha contado con la fi...(+)





Biotecnología azul y economía circular, arranca CALYPSO

Fuente: Clustermc.es / Fecha: 03/01/2025

Biotecnología azul

El CMC liderará acciones de formación y divulgación en el proyecto para el desarrollo sostenible del sector de las algas. El pasado 29 de enero de 2025 tuvo lugar en Gran Canaria la reunión de lanzamiento del Proyecto CALYPSO, una iniciativa centrada en el cultivo y aprovechamiento sostenible de las algas en la región de la Macaronesia y África Occidental. Este proyecto, liderado por el Banco Español de Algas de la ULPGC, cuenta con la participación de 21 entidades de distintas disciplinas y está financiado en un 85% p...(+)

Ver más...





FEBRERO MAYO 2025

Empresas y mercados

U.S. Shipbuilding Industry vs. China

Fuente: Thesignalgroup.com / Fecha: 30/04/2025

Criminalidad azul

Following our in-depth analysis of the dry bulk market, we now shift attention to the tanker segment. Leveraging insights from the Signal Ocean Voyages API, we can compare global and U.S. port calls across for tanker vessels—highlighting which vessel classes and commodity flows are most vulnerable to recent regulatory changes. With the release of new USTR rules and the intensifying U.S.-China maritime rivalry, a key question emerges: Is the U.S. shipbuilding sector equipped to assume a central role in global freight markets during this critical juncture? U.S. Finalises Port Fees Targeting ...(+)



Ver más...

9 Proyectos de Economía Circular con Empresas que Apostaron por el Cambio

Fuente: Cmplastik.com / Fecha: 22/04/2025

Economía azul

¿Qué pueden hacer los proyectos de economía circular por tu empresa? En CM PLASTIK llevamos años demostrando que la sostenibilidad no está reñida con el diseño, la funcionalidad o la innovación. Nuestro equipo trabaja con empresas de todos los sectores para transformar residuos complejos en productos únicos, prácticos y 100% circulares. Aquí te compartimos algunos de nuestros proyectos de economía circular más recientes: 1. DENTAID y sus contenedores para cepillos reciclados. DENTAID llegó a nosotros cor...(+)

Ver más...



Siport21 utiliza gemelos digitales y simuladores para analizar la maniobrabilidad de un buque de GNL con velas modernas

Fuente: Siport21.com / Fecha: 27/03/2025

(Economía azul)

Siport21 ha utilizado gemelos digitales y simuladores avanzados para la maniobrabilidad de un buque de GNL con velas modernas como propulsión auxiliar. El equipo de Siport21 ha evaluado el impacto de estas velas en condiciones operativas reales, a través de un caso de estudio basado en el buque Traiano Knutsen – un buque de transporte de gas natural licuado (LNG) reconocido por su diseño eficiente y capacidad de carga- propiedad de Knut...(+)

Ver más...



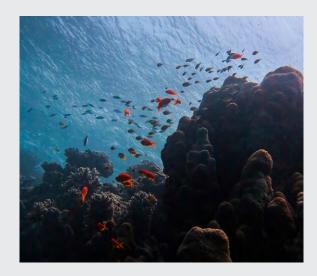
SeaClear2.0 showcased amongst key solutions developed by Mission Ocean projects to address marine litter

Fuente: Seaclear2.eu / Fecha: 27/03/2025

Economía azul

On 24th February, our colleagues at Subsea Tech presented the SeaClear2.0 robotic solution and how it can contribute to large-scale marine pollution mitigation efforts at the French Blue Mission Med Hub's Blue Mission Med Day, in Toulon, France. The event was organised by Ifremer (French Marine Research Institute) and the Pôle Mer Méditerranée maritime cluster, focusing on the challenges and solutions for ocean cleaning in the Mediterranean.

Ver más...



Navantia y Microsoft colaborarán para impulsar la ciberseguridad y la IA en la industria de defensa

Fuente: Navantia.es / Fecha: 26/03/2025

Criminalidad azul

Navantia, empresa líder en diseño y construcción naval y defensa, y Microsoft han firmado un acuerdo estratégico de colaboración para potenciar la ciberseguridad y la inteligencia artificial (IA) en la industria de defensa. Con ello, se busca acelerar la transformación digital de Navantia, mejorar la eficiencia de sus operaciones y afianzar la posición de la empresa como referente en innovación tecnológica dentro de su sector. Mediante el acuerdo, ambas organizacio...(+)

Ver más...



Meet the experts joining our "Blue Economy: Ocean-Focused Innovation Making Big Waves" panel at the EU-Startups Summit 2025!

Fuente: Eu-startups.com / Fecha: 18/03/2025

(Economía azul)

On April 24-25, 2025, the EU-Startups Summit returns to Malta for an unmissable two-day event bringing together around 2,200 founders, startup enthusiasts, and investors for inspiring talks, networking, and industry-leading discussions. The blue economy is gaining momentum as startups and innovators explore sustainable solutions for marine conservation, ocean energy, aquaculture, and maritime technology. But what does it take to build a successful ven...(+)

Ver más...



La Empresa Universal Plastic: Premio a la mejor Startup-up Economía Azul de la UE

Fuente: Universalplastic.io / Fecha: 11/03/2025

Economía azul

En el marco de la Semana de los Océanos organizada por la Unión Europea en Bruselas, Universal Plastic se enorgullece de anunciar que ha sido galardonada como la mejor solución de 2025 para la regeneración de nuestros océanos, al ganar la Start-Up Battle del programa Bluelnvest de la Unión Europea. Nuestra representación Española en el evento, presentaba ante los principales directores de la Unión Europea su solución para empresas: La Verificación Become Blue, una estrategia disruptiva de RSC para mejorar...(+)

Ver más...



Navantia Seanergies y su consorcio prueban en el mar la subestación eléctrica flotante ECOFOSS

Fuente: Murciaplaza.com / Fecha: 25/02/2025

Economía azul

El proyecto de I+D+i ECOFOSS, cuyo objetivo es el diseño de una subestación eléctrica flotante de alta tensión en corriente alterna cero emisiones, ha iniciado este mes su fase de pruebas, en la cual se están realizando ensayos con una maqueta para validar su comportamiento en la mar, en un entorno acuático controlado. ECOFOSS es un proyecto innovador promovido por un consorcio de 6 empresas con un alto perfil tecnológico: Red Eléctrica, Sener, Ocean Ecostructures, Ditrel y Uptech Sensing, y liderado por Navantia ...(+)

Ver más...



Salmonics Makes a Splash at SLAS Conference

Fuente: Salmonics.co / Fecha: 20/02/2025

Biotecnología azul

Salmonics had an exciting start to the new year thanks to the Society for Laboratory Automation and Screening (SLAS) Conference in January! Hosted at the San Diego Convention Center, our team was able to network with other innovative companies and share our vision for a more sustainable future using our fish-derived biomedical products. As part of SLAS 2025, Salmonics was selected as an Innovation AveNEW participant where our kiosk was situated with other start-ups eager to advance new technologies for the greater good. One of the most rewarding aspects of the Conference was mee...(+)

Salmonics

Ver más...

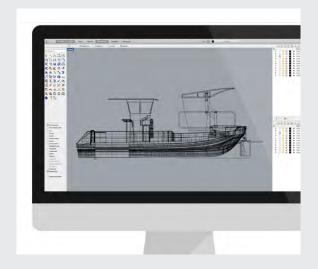
CatClean 75 Alu 100% ECO

Fuente: Onasafeandclean.com / Fecha: 14/02/2025

Economía azul

The Ona Safe & Clean group, together with a very varied team of professionals, has launched the professional work catamaran for cleaning and fighting marine, coastal and port pollution, made of naval aluminum and powered with 100% ecological energy, using 2 electric Pods from the Epropulsion firm. The objective is to continue adding and continue learning from the best, equipping the most innovative ecological propulsion equipment on the market, to try to be as respectful and sustainable as possible in our daily lives. The manufacture of this new catamaran model is a milestone...(+)





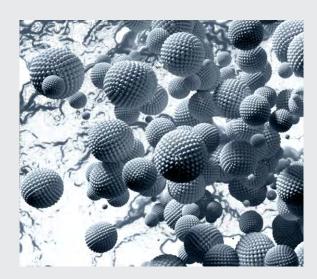
Nanocomposites and colorectal cancer

Fuente: Marinova.com.au / Fecha: 05/02/2025

Biotecnología azul

Colorectal cancer is the third most common type of cancer worldwide. Incidences of colorectal cancer continue to increase, prompting researchers to explore potential therapies for future treatment. A recent study, utilising high purity Undaria pinnatifida fucoidan manufactured by Marinova, explored the anti-cancer activity of nanoparticles and bioactive nanocomposites against colorectal cancer cell lines. The study found the nanocomposite containing the Undaria pinnatifida fucoidan to be the most effectual against CaCo-2 and HT-29 colorectal cancer cell lines, significantly exceeding the ac...(+)

Ver más..



A Race Against Blindness Announces \$2 Million Grant to Support Sight-Saving Clinical Trial

Fuente: Axoviatherapeutics.com / Fecha: 05/02/2025 Biotecnología azul

We at Axovia Therapeutics are so grateful to A Race Against Blindness for their generous \$2 million grant in support of our planned clinical trial in BBS1. With this funding, we advance closer to our goal of getting the trial underway in the UK mid-year. Our shared mission remains strong, to bring hope to individuals and families impacted by blindness. A Race Against Blindness, a nonprofit organization dedicated to funding sight-saving therapies for children, is thrilled to announce a \$2.0 million grant was awarded in Decem...(+)

Ver más...



Unlocking AI at the Edge: How Wave-Powered Mini Data Centers Can Extend Cloud Computing to Remote Waters

Fuente: Oceanpowertechnologies.com / Fecha: 01/02/2024 Economía azul

Artificial intelligence (AI) has revolutionized industries from finance to healthcare, but its potential is often constrained by access to cloud computing infrastructure. Many critical operations—such as maritime security, deep-sea exploration, and offshore industries—take place far from traditional data centers, limiting real-time AI capabilities. This gap presents an opportunity for innovation: deploying wave-powered mini data centers in the ocean to bring e...(+)

Ver más...



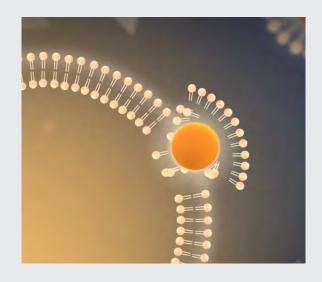
New Study: Aker BioMarine's PL+ Innovation Boosts Omega-3 Absorption

Fuente: Akerbiomarine.com / Fecha: 22/11/2024

Biotecnología azul

PL+ EPA/DHA, a new formulation of krill phospholipids with fish oil omega-3, shows more than 10 times greater absorption in the body compared to traditional fish oil. A recent clinical study utilizing Aker BioMarine's PL+ Technology platform, demonstrates a new formulation combining high phospholipid krill oil and ethyl esters (PL+ EPA/DHA) significantly enhances the absorption of EPA and DHA, the key omega-3 fatty acids. The randomized cross-over clinical trial, conducted with 12 healthy adults, found that PL+ EPA/DHA resulte...(+)

Ver más...



PML Applications Scientist Contributes to Groundbreaking Marine Metal Lifespan Model

Fuente: Pml-applications.co.uk / Fecha: 04/11/2024

Biotecnología azul

The maritime industry has long grappled with fatigue-related failures in welded areas, a leading cause of vessel loss and deaths at sea. In a significant advancement for marine engineering and safety, Dr Tamsin Dobson, biocorrosion specialist at PML Applications, has collaborated with researchers from the University of Bristol, University of Warwick and TECNALIA Research & Innovation (Spain), to gain insight on the role of real corrosion environments on the corrosion behaviour of metals in comparison with standardised artif...(+)





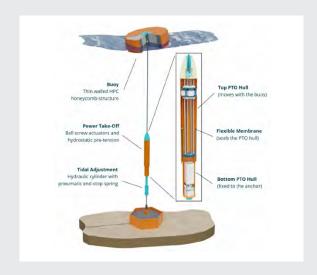
INFINITY Project awarded EUR 1.7 million from Clean Energy Transition Partnership (CETP) program

Fuente: Oceanharvesting.com / Fecha: 01/11/2024

Economía azul

INFINITY Project will develop lifetime-aware Model Predictive Control (MPC) to be tested on InfinityWECs power take-off in an HIL test rig at VGA in Italy. Optimizing power take-off systems and control algorithms for wave energy converters is essential to reduce the use of materials per MW installed capacity and lower the levelized cost of energy (LCOE). The INFINITY Project delivers the next generation PTO and control system, taking advantage of learnings and ...(+)

Ver más...



Nissha invests in Blue Ocean Closures AB

Fuente: Blueoceanclosures.com / Fecha: 08/10/2024

Economía azul

Nissha, a global technology company within the medical, mobility and sustainable materials markets, is now investing in Blue Ocean Closures and becomes a co-owner of the Swedish sustainability start-up. On a mission to reduce plastic pollution and its climate effects, Blue Ocean Closures AB has developed a proprietary vaccum press forming technology and is producing fiber-based closures, recyclable as paper. The innovative products help global brands to reduce carbon footprint by replacing plastic closures for packaging. Entering into partnership with the Nissha Group, w...(+)

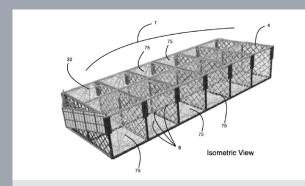
Ver más...





FEBRERO MAYO 2025

Patentes



AN AQUACULTURE STRUCTURE

Publicación: Espacenet / Fecha: 27/02/2024

Biotecnología azul

Solicitante: BLUE ECONOMY CRC CO [AU]

A fish pen or sea animal module structure, the fish pen module including a plurality of pipes; a plurality of connector nodes including pipe receivers configured to receive pipe ends from a plurality of directions; the plurality of pipes connected to the connector nodes to form a substantially cubic lattice structure, supported by braces connecting adjacent or op...(+)

Ver más...



Streptomyces luteus and application thereof in prevention and treatment of tomato leaf mold

Publicación: Espacenet / Fecha: 25/02/2024

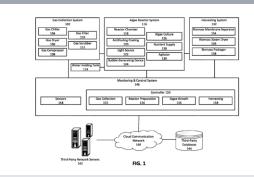
Biotecnología azul

Solicitante: ZHEJIANG ORGANIC MARINE BIOTECHNOLOGY CO LTD

The invention discloses streptomyces luteus and application of the streptomyces luteus in prevention and treatment of tomato leaf mold. According to the invention, streptomyces luteoverti RZ0102 with a relati...(+)

Ver más...





CO, FED ALGAE GROWTH AND HARVEST

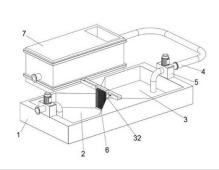
Publicación: Espacenet / Fecha: 20/02/2025

Biotecnología azul

Solicitante: PHYCO2 LLC [US]

Systems and methods are provided for processing carbon dioxide-containing gas based on biomass. Such processing may include collection from a point source or atmosphere, drying, treatment, and compression. The compressed gas may be fed into an algae reactor that maintains optimal conditions for algae growth. The algae may be allowed to grow un...(+)

Ver más...



Seawater desalination air flotation pretreatment device

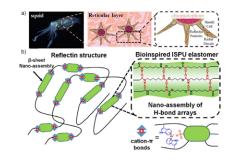
Publicación: Espacenet / Fecha: 14/02/2025

Biotecnología azul

Solicitante: WUXI GONGYUAN ENVIRONMENTAL TECH STOCK CO LTD

The invention belongs to the technical field of seawater desalination air flotation pretreatment, and particularly relates to a seawater desalination air flotation pretreatment device which comprises a water distribution tank and an air flotation mechanism, a first water ...(+)

Ver más...



Seawater-resistant and damage-resistant skin-like elastomer as well as preparation method and application thereof

Publicación: Espacenet / Fecha: 07/02/2025

Biotecnología azul

Solicitante: UNIV NATIONAL DONG HWA

The invention relates to a seawater-resistant and damage-resistant skin-like elastomer and a preparation method and application thereof, and the seawater-resistant and damage-resistant skin-like elastom...(+)

Ver más...



PROBIOTIC BACTERIA AND ALGAE-BA-SED RAW MATERIAL PRODUCTION

Publicación: Espacenet / Fecha: 06/02/2025

Biotecnología azul

Solicitante: Aaaaa

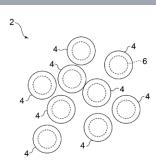
The invention relates to the production of probiotic bacteria and algae-based raw materials containing Probif (Probiotic Bifidobacterium infantis, Xylooligosaccharide, Sodium alginate composite), Agar (Algae), Agarose (Algae agar), Glycerin and Citric acid, which are not petroleum products, which are easy to dissolve in nat...(+)

Ver más...

PRISMA DE ESPAITEC / FEBRERO - MAYO 2025

PATENTES / 17





METHOD FOR CULTURING ALGAE

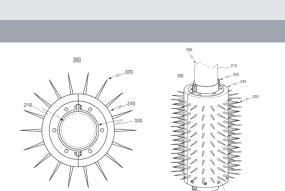
Publicación: Espacenet / Fecha: 31/01/2025

Biotecnología azul

Solicitante: MITSUBISHI HEAVY IND POWER IDS CO LTD

To suppress an increase in costs associated with algae cultivation. SOLUTION: A method for culturing algae includes the steps of: spraying fly ash onto the water surface to cause it to float; and attaching algae to the fly ash floating on the water surface. To suppress an increase in costs associated with a...(+)

Ver más...



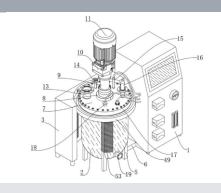
FLOATING STRUCTURE

Publicación: Espacenet / Fecha: 17/01/2025 Criminalidad azul

Solicitante: SAMSUNG HEAVY IND [KR]

The present invention provides a floating structure. The floating structure of the present invention comprises: a hull; a pipe installed in a direction perpendicular to the outside of the hull; and a blocking device installed on an outer surface of the pipe to prevent pirates from boarding through the pipe; wherein the blocking device comprises a cylindrical cover in...(+)

Ver más...



Efficient algae cultivation equipment

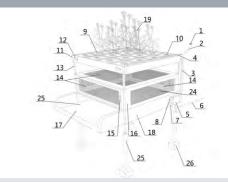
Publicación: Espacenet / Fecha: 17/01/2025

Biotecnología azul

Solicitante: XIAMEN WATER BAY SHUIBEI AUTOMATION TECH CO LTD

The invention relates to the technical field of algae cultivation, and discloses an efficient algae cultivation device which comprises an algae seed tank and an illumination lamp arranged outside the algae seed tank, a tank cover is fixed to the algae seed tank, a stirring rod is rotationally arranged in the tank cover in a pene...(+)

Ver más...



Biological algae control comprehensive water purification device suspended in water

Publicación: Espacenet / Fecha: 10/01/2025

Biotecnología azul

Solicitante: CHINA CONSTRUCTION ZHONGHUAN NEW ENERGY CO LTD

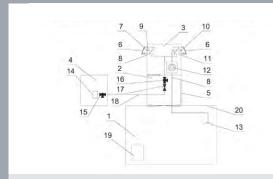
The invention discloses a biological algae-control comprehensive water purification device suspended in water. The device comprises a plant purification floating layer, a filter material water purification filter layer...(+)

Ver más...

PRISMA DE ESPAITEC / FEBRERO - MAYO 2025

PATENTES / 18





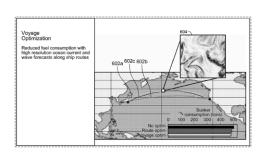
Ventilation system for anti-pirate cabin of ship

Publicación: Espacenet / **Fecha:** 17/01/2025

Solicitante: NO 708 INST CHINA STATE SHIPBUILDING CORP

The invention belongs to the technical field of ship ventilation, and discloses a ship anti-pirate cabin ventilation system which comprises an anti-pirate cabin. The channel is communicated with the anti-pirate cabin; the fan room is arranged on the other sid...(+)

Ver más...



SHIP ROUTE OPTIMIZATION

Publicación: Espacenet / Fecha: 20/06/2024

Economía azul

Solicitante: X DEV LLC [US]

Methods, systems, and apparatus, including computer programs encoded on computer storage media, for determining elements of a shipping network. One of the methods includes obtaining environmental input data, wherein the environmental input data includes weather forecast data; providing the environmental input data to a circulation model; ...(+)

Ver más...



Anti-aging composition for increasing corium layer collagen and preparation method of anti-aging composition

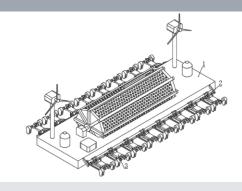
Publicación: Espacenet / Fecha: 07/01/2025

Biotecnología azul

Solicitante: XINCHEN BIOLOGICAL GUANGDONG CO

The invention relates to the technical field of compositions, in particular to an anti-aging composition for increasing corium layer collagen and a preparation method of the anti-aging composition. Comprising...(+)

Ver más...



Mariculture platform integrating wind energy and wave energy for power generation

Publicación: Espacenet / Fecha: 29/10/2024

(Economía azul)

Solicitante: UNIV ZHEJIANG OCEAN

The invention discloses a mariculture platform integrating wind energy and wave energy for power generation, and relates to the technical field of mariculture. The system comprises a breeding assembly; the breeding assembly comprises a breeding platform, sea wave po...(+)

Ver más...



FEBRERO MAYO 2025

Informes sectoriales

The Ocean Economy to 2050

Fuente: Oecd.org / **Fecha:** 31/03/2025

Economía azul

The ocean economy has long been a powerful driver of global growth, creating jobs, fuelling development, and ensuring food security for millions worldwide. If the ocean economy were a country, it would be the fifth largest economy in the world. However, climate change, environmental degradation, lagging productivity, and slow digital transformation are intensifying pressures on marine ecosystems and economic potential. Tackling these challenges requires bold, co-ordinated action, not only to safeguard marine ecosystems but to sustain the oc...(+)

Descargar



Marine Biotechnology Global Market Report 2025

Fuente: Thebusinessresearchcompany.com /

Fecha: 01/03/2025

Biotecnología azul

Marine Biotechnology is a branch of science that involves the utilization of marine creatures, their genetic material, and related bioactive substances for various uses. Marine Biotechnology encompasses the study and manipulation of marine organisms, including plants, animals, amd microorganisms, to develop products, processes and technologies to be used in cosmetics, nutritonial supplements, pharmaceuticals, and other indust...(+)

Descargar



PRISMA DE ESPAITEC / FEBRERO - MAYO 2025 INFORMES SECTORIALES / 20



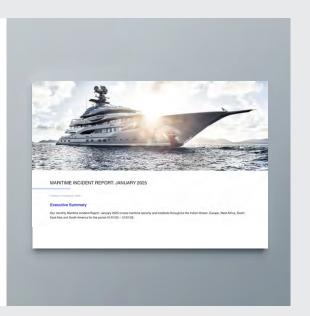
Maritime Incident Report: January 2025

Fuente: Priavosecurity.com / Fecha: 01/01/2025

Criminalidad azul

Our monthly Maritime Incident Report: January 2025 covers maritime security and incidents throughout the Indian Ocean, Europe, West Africa, South East Asia and South America for the period 01/01/25 – 31/01/25. Europe: Subsea communications cables were damaged in the Baltic Sea, while elsewhere, human migration events continued in the Mediterranean and Aegean Sea. Red Sea and Gulf of Aden: There were no attacks against commercial ships during January. The Houthis responded to the cease-fire agreement in Gaza by declaring a ce...(+)

Descargar



State of the Blue Economy Report 2025

Fuente: Blueassembly.io / Fecha: 01/01/2025

Economía azul

Enabling effective governance of ocean health and blue economies. Blue Assembly exists to facilitate collaboration on shared visions and priorities amongst Partners. Each Partner is a leading institution representing a significant sector of the blue economy or key stakeholders in improving ocean health. VISION: WA demonstrates leadership nationally and internationally in the Indian Ocean through its collaborative approach to stewardship of ocean health and development of sustainable ocean economies. The annual State of the Blue Econ...(+)

Descargar



Ocean Knowledge that Informs and Inspires, Corporate Strategy 2023 - 2027

Fuente: Oar.marine.ie / Fecha: 01/01/2023

The Marine Institute was set up under the Marine Institute Act 1991: "to undertake, to coordinate, to promote and to assist in marine research and development and to provide such services related to research and development, that in the opinion of the Institute, will promote economic development and create employment and protect the marine environment." We are the State agency responsible for marine research, technology development and innovation in Ireland. We provide scier...(+)

Descargar



PRISMA DE ESPAITEC / FEBRERO - MAYO 2025 INFORMES SECTORIALES / 21



FEBRERO MAYO 2025

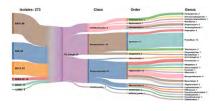
Publicaciones científicas

Phenotypic and omics analyses of the Sordariomycetes Marquandomyces marquandii and Albophoma yamanashiensis isolated from estuarine

Fuente: Biorxiv.org Fecha: 14/04/2025



Marine environments harbor a vast diversity of microorganisms, which have developed multiple strategies to adapt to challenging conditions and represent a valuable source for new products such as pigments, enzymes and bioactive compounds. From all microorganisms inhabiting marine environments, fungi have been the least studied, despite their ubiquitous presence and great biotechnological potential. Here, we focused on the isolation and characterization of filamentous fungi from marine sediment samples, which were collected along the Basque coast in Spain. Through phen...(+)



Ver más...

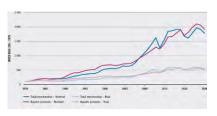
Blue economy: business model features of aquaculture farms

Fuente: Doi.org
Fecha: 04/04/2025

Biotecnología azul



In conditions of limited resources, sustainable development of the economy is important. Among the modern theories and concepts of the economy, we should highlight the Blue Economy, which corresponds to the goals of sustainable development of the United Nations (goals 1; 8; 14: 15; 17). The Blue Economy includes sectors such as: coastal tourism, marine living resources - aquaculture, blue energy, blue biotechnologies and seabed mining. Aquaculture, the farming of aquatic organisms such as fish, shellfish, and aquatic plants, has emerged as a critical sector in meeting the growing global dem...(+)



Ver más...

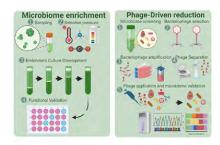
PRISMA DE ESPAITEC / FEBRERO - MAYO 2025 PUBLICACIONES CIENTÍFICAS / 22

Integrating microbial communities into algal biotechnology: a pathway to enhanced commercialization

Fuente: Frontiersin.org Fecha: 01/04/2025 Biotecnología azul



Microalgae are increasingly recognized for their potential in wastewater treatment and the sustainable production of feedstock for fuel, feed, food, and other bioproducts. Like conventional agricultural systems, algal cultivation involves complex microbial communities. However, despite their pivotal role in cultivation outcomes, especially at the commodity-scale, the critical interactions between microalgae and their microbiomes are often overlooked. Here we synthesize current knowledge on the taxonomic diversity, ecological roles, and biotechnological potential of algal microbiomes, with a focus on their ...(+)





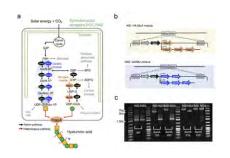
CRISPRi-assisted metabolic engineering of cyanobacteria for photosynthetic hyaluronic acid from CO₂

Fuente: Biomedcentral.com Fecha: 27/03/2025

Biotecnología azul



Hyaluronic acid (HA) is widely used in pharmaceuticals, medicine, and cosmetics. Sustainable production has shifted to microbial fermentation using engineered GRAS strains. Diverse carbon sources and CO2 conversion via engineered microorganisms enhance HA production. Herein we applied advances in CRISPR technologies and tools to optimize metabolic pathway by redirecting carbon portioning in cyanobacterium Synechoccous elongatus PCC 7942, demonstrating enhanced HA production. S. elongatus PCC 7942 lacking hyaluronan synthase (HAS) required pathway engineering for HA produc...(+)



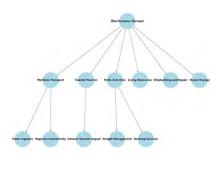
Ver más... →

The Role of the Fishing Sector in the Blue Economy:
Prioritization, Environmental
Challenges, and Sustainable
Strategies in Europe, with a
Focus on Spain

Fuente: Mdpi.com Fecha: 20/03/2025 Criminalidad azul



The fishing sector is a key component of the European Blue Economy, contributing to economic growth, food security, and employment. However, it faces sustainability challenges, including overfishing, biodiversity loss, and climate change impacts. This study uses decision tree modeling to assess the sector's prioritization within the Blue Economy, comparing its economic and environmental footprint to other maritime industries. Using EU Fleet Register data, findings reveal disparities in fleet modernization and efficiency, with industrialized fleets in Spain, France, and Italy exhibiting higher tonnage and po...(+)



Ver más... —

PRISMA DE ESPAITEC / FEBRERO - MAYO 2025 PUBLICACIONES CIENTÍFICAS / 23

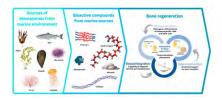
Innovation in Osteogenesis Activation: Role of Marine-Derived Materials in Bone Regeneration

Fuente: Mdpi.com Fecha: 07/03/2025

Biotecnología azul



Marine-derived biomaterials are emerging as promising candidates for tissue regeneration due to their sustainability, biocompatibility, bioactivity, and unique chemical structure. This review provides an overview of different marine-derived inorganic and organic materials, such as calcium carbonate, magnesium salts, silica, polysaccharides, bioactive peptides, and lipid-based compounds, and their effects in promoting osteogenesis. Specifically, the osteoinductive, osteoconductive, and osteointegrative activities of traditional and innovative materials that influence key molecular pathways ...(+)



Ver más...



Biologists and Economists perspectives on the Blue Economy

Fuente: Doi.org Fecha: 05/03/2025

Biotecnología azul



One-third of Earth is covered by ocean, and it is strengthened by massive diversity. Throughout history, humans have resided along coastal areas, investigating the growth and behaviour of marine life to enhance resource utilization and ensure their protection. The Blue Economy focuses on economic activities concentrated around the ocean, including tourism, transportation, energy, and fishing. Blue biotechnology supports sustainable growth in maritime and marine industries for economic opportunities and innovation. The blue bioeconomy and biotechnology industries are exploring untap...(+)



Ver más



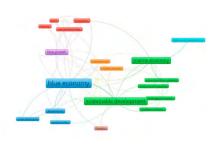
Blueprint for a sustainable blue economy: challenges, opportunities, and policy pathways

Fuente: Doi.org Fecha: 01/03/2025

Economía azul



The Blue Economy has emerged as a crucial paradigm for achieving sustainable economic growth, environmental conservation, and social equity through the responsible utilization of marine resources. This study explores the multifaceted dimensions of the Blue Economy, highlighting its potential across key sectors such as fisheries, aquaculture, maritime transport, renewable energy, and marine biotechnology. India's strategic maritime position, coupled with initiatives like the Deep Ocean Mission and Pradhan Mantri Matsya Sampada Yojana, underscores its commitment to integrating ocean-ba...(+)



Ver más...

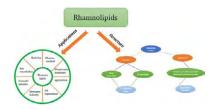


Rhamnolipids bio-production and miscellaneous applications towards green technologies: a literature review

Fuente: Peerj.com Fecha: 21/02/2025



Growing attention towards rhamnolipids (RLs) biosurfactants with antibacterial, antifungal, antivirus and antitumor potentials encourage future research in biotechnology and biomedicine fields. Economic production from waste materials, biodegradability and low toxicity makes RLs perform as green molecules that serve in sustainability and green technologies. This review aims to focus on bioproduction, detection and applications of rhamnolipids in pharmaceuticals, soil bioremediation, agriculture and food industries in addition to future perspectives. This will help to shed light on and update the ...(+)



Ver más.

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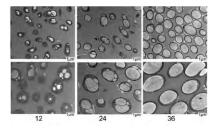
Cell Sizes Matter for Industrial Bioproduction, a Case of Polyhydroxybutyrate

Fuente: Doi.org
Fecha: 18/02/2025

Biotecnología azul



Most bacterial cells are 1–2 microns in size, limiting intracellular products like polyhydroxyalkanoates (PHA) accumulation. Cell size is regulated by key genes such as mreB and minCD, which encode cellular skeleton protein and control cell fission ring location, respectively. Their expression changes significantly affect microbial growth. This study successfully redesigns the ClpXP protein degradation system by deleting the sspB gene and using mutated SsrA tags with different degradation rates to control MreB degradation. Dynamic degradation of MreB allows non-model bacterium Halomonas bluephagenes ...(+)



Ver más...



Enhancing Sustainable Blue Economy Strategies: A Comprehensive Analysis of the Baltic Sea Region's Policy, Practices, and Innovations

Fuente: Semanticscholar.org **Fecha:** 09/02/2025

Economía azul



The sustainable blue economy in the Baltic Sea Region (BSR) has become a focal point for balancing economic growth with environmental stewardship. Originating from the broader concept of sustainable development, the blue economy emphasizes the sustainable use of marine resources to drive economic and social progress. This research investigates the key challenges and opportunities faced by the blue economy in the BSR and assesses the effectiveness of the European Union Strategy for the Baltic Sea Region (EUSBSR) in addressing these issues. Challenges in the BSR's blue economy include environn...(+)



/er más...

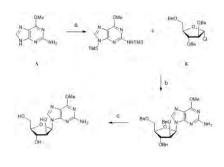


Advanced Technologies for Large Scale Supply of Marine Drugs

Fuente: Mdpi.com Fecha: 07/02/2025



Marine organisms represent a source of unique chemical entities with valuable biomedical potentialities, broad diversity, and complexity. It is essential to ensure a reliable and sustainable supply of marine natural products (MNPs) for their translation into commercial drugs and other valuable products. From a structural point of view and with few exceptions, MNPs of pharmaceutical importance derive from the so-called secondary metabolism of marine organisms. When production strategies rely on marine macroorganisms, harvesting or culturing coupled with extraction procedures frequently remain the on ...(+)



Ver más... \rightarrow

The Role of Blue Economy in Enhancing Economic Growth

Fuente: Ejournal.ppsdp.org **Fecha:** 01/02/2025

Economía azul



This study investigates the role of the Blue Economy in fostering economic growth in Indonesia, focusing on the sustainable management of marine resources. Marine biotechnology presents immense potential for innovation and economic growth through the development of new products and technologies. Environmentally friendly maritime transportation reduces the environmental impact of shipping, supporting broader sustainability goals. This study underscores the importance of integrating sustainable practices across various marine sectors to achieve a balance between economic growth and...(+)



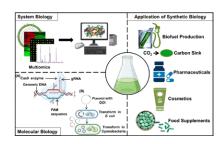
Ver más... →

Cyanobacterial green chemistry: a blue-green approach for a sustainable environment, energy, and chemical production

Fuente: Rsc.org Fecha: 14/01/2025 Biotecnología azul



Increased human activity due to the everincreasing global population has necessitated the urgent need for a sustainable environment, food, and energy. Cyanobacteria, classically known as blue-green algae, are oxygen-producing photosynthetic organisms that are emerging as an option to achieve sustainable development goals. These Gram-negative prokaryotes can efficiently sequester atmospheric CO2 due to an efficient carbon concentrating mechanism and divert it to the production of energy-rich compounds, i.e., biofuel, and other valuable chemicals, using their flexible metabolic chassis. Additior...(+)



Ver más... →

PRISMA DE ESPAITEC / FEBRERO - MAYO 2025 PUBLICACIONES CIENTÍFICAS / **26**

An Analysis of Destructive Fishing as an Anthropogenic Disaster in Coastal Areas

Fuente: Amikom.ac.id Fecha: 09/01/2025 Criminalidad azul



Destructive fishing has emerged as a critical threat to maritime ecosystems, posing severe risks to the economy, ecosystem sustainability, resource management, and national security, along with its complex cross-sectoral impacts in coastal areas. As a form of illegal fishing, its harmful consequences necessitate comprehensive scrutiny. This research aims to categorize destructive fishing as an anthropogenic disaster from a maritime security perspective, emphasizing its broad cross-sectoral effects. Employing a qualitative methodology alongside an extensive literature review, this study integrates disaster ...(+)



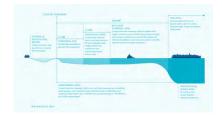
Ver más...

Study on the Application of the Principle of Proportionality in the Use of Force in Maritime Law Enforcement

Fuente: Scholink.org Fecha: 03/01/2025 Criminalidad azul



With the step-by-step advancement of China's strategy to become a strong maritime nation, the requirements for high quality and high level of maritime law enforcement activities have become more and more stringent. In maritime law enforcement activities, the use of force is a necessary means to realize the purpose of law enforcement. In maritime law enforcement activities, the use of force is a necessary means to realize the purpose of law enforcement, but the unrestricted use of force not only fails to maintain maritime peace and security, but also triggers conflicts and disputes in the international ...(+)



Ver más... →

Multi-Stakeholder Networks as Governance Structures and ICT Tools to Boost Blue Biotechnology in Spain

Fuente: Semanticscholar.org Fecha: 28/12/2024 Biotecnología azul

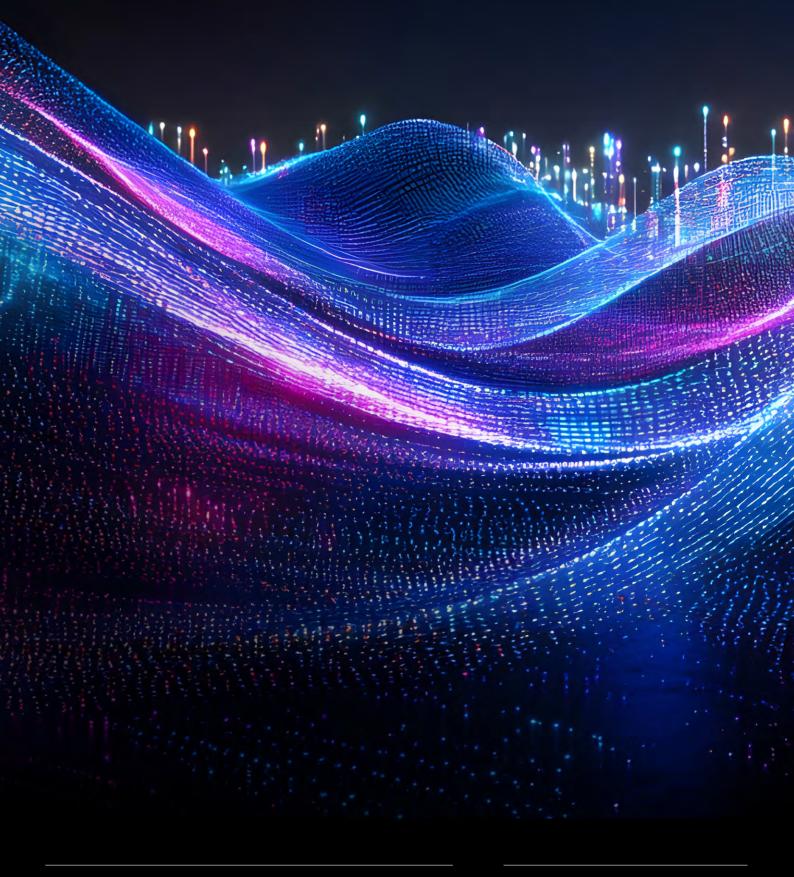


Blue Biotechnology (BBt) is a young and promising sector in the Mediterranean region with the potential to drive innovation and strengthen the Blue Economy (BE). However, its progress is constrained by fragmented coordination among stakeholders, impeding policy development and efficient resource management. Under this context, this study investigates the role of networks of diverse stakeholders, particularly the Spanish Blue Biotechnology Hub (BBHub) and a digital tool, ICT Matchmaking Tool (which connects network actors), in addressing these challenges by fostering collaboration, enhan...(+)



Ver más... →

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