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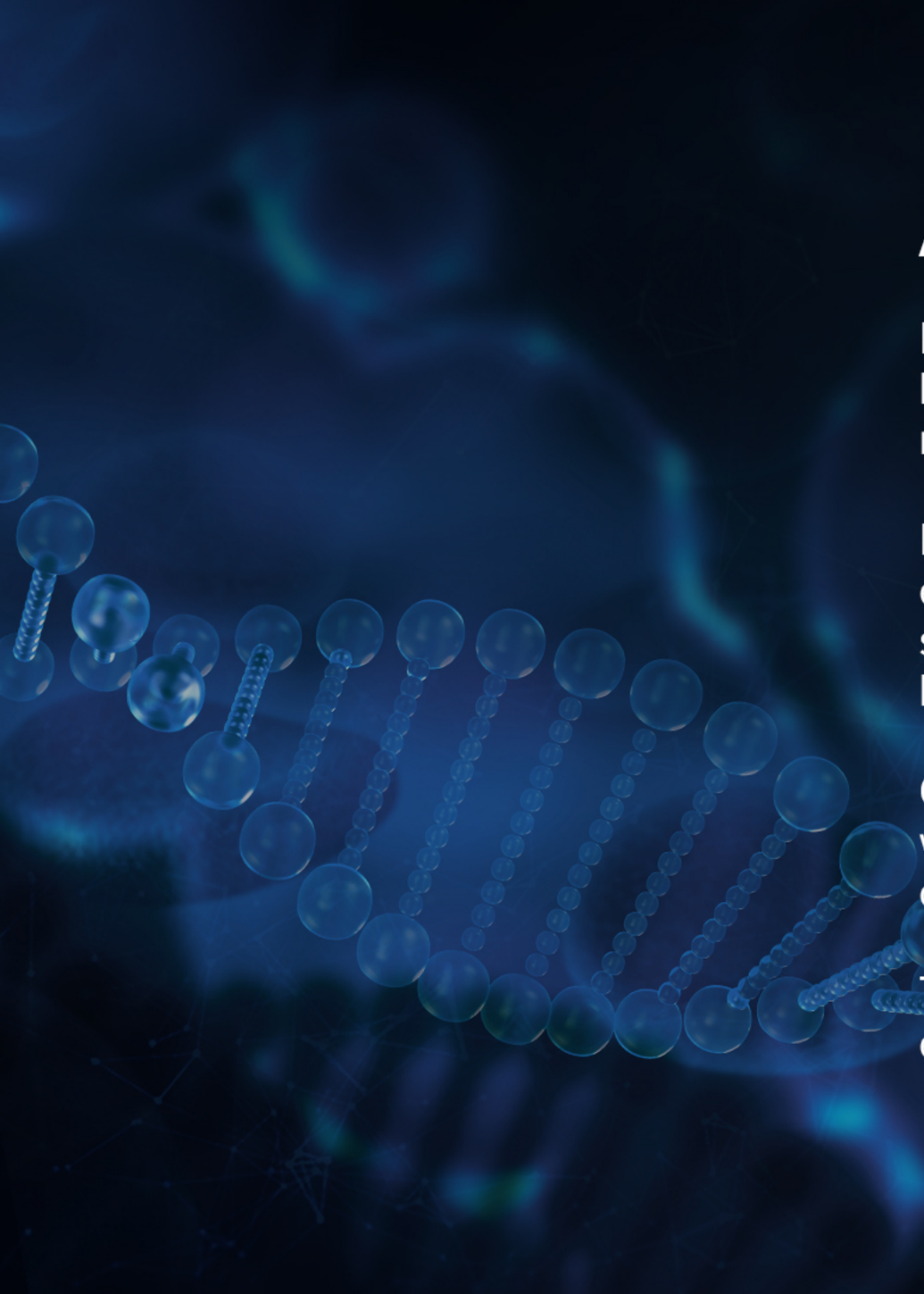
**Where Technology Meets Nature**

# AGING?

Collagen production decreases by about 1% per year starting in the mid-20s. By age 40, this leads to visible aging signs like wrinkles and sagging skin. By 60, collagen levels may have dropped by 30% compared to youth. BioEridan have a solution.

SOURCE: https://www.all-about-you-med-spa.com/about/blog/2019/09/collagen-banking-what-is-it-and-why-start-in-20s/



# ABOUT BIOERIDAN

BioEridan is a biotechnology company pioneering the future of longevity science through underwater cultivation systems and marine-based cellular research.

By cultivating bioactive botanicals 13 meters underwater, we explore how marine environments can naturally stimulate stronger molecular expression and support next-generation longevity compounds.

Our underwater farms operate as living research platforms where biotechnology, ecology, and cellular science merge into one system of innovation.

The future of longevity will be discovered through nature and engineered through technology.

# OUR MISSION

To explore the hidden potential of marine ecosystems in shaping the future of human longevity. Through underwater cultivation systems, cellular research, and sustainable biotechnology, BioEridan is building a new generation of marine-derived compounds designed to support the future of human health. At the intersection of science, ecology, and innovation, our mission is simple:
**To discover what nature has already perfected.**

**Three Pillars:**

- **TELOMERES**
  Research focused on cellular aging, telomere stability, and longevity compounds.
- **FARMS**
  Controlled underwater hydroponic systems designed for advanced marine cultivation.
- **ECOLOGY**
  Marine ecosystems used not only for cultivation, but also for ecological purification and sustainable innovation.

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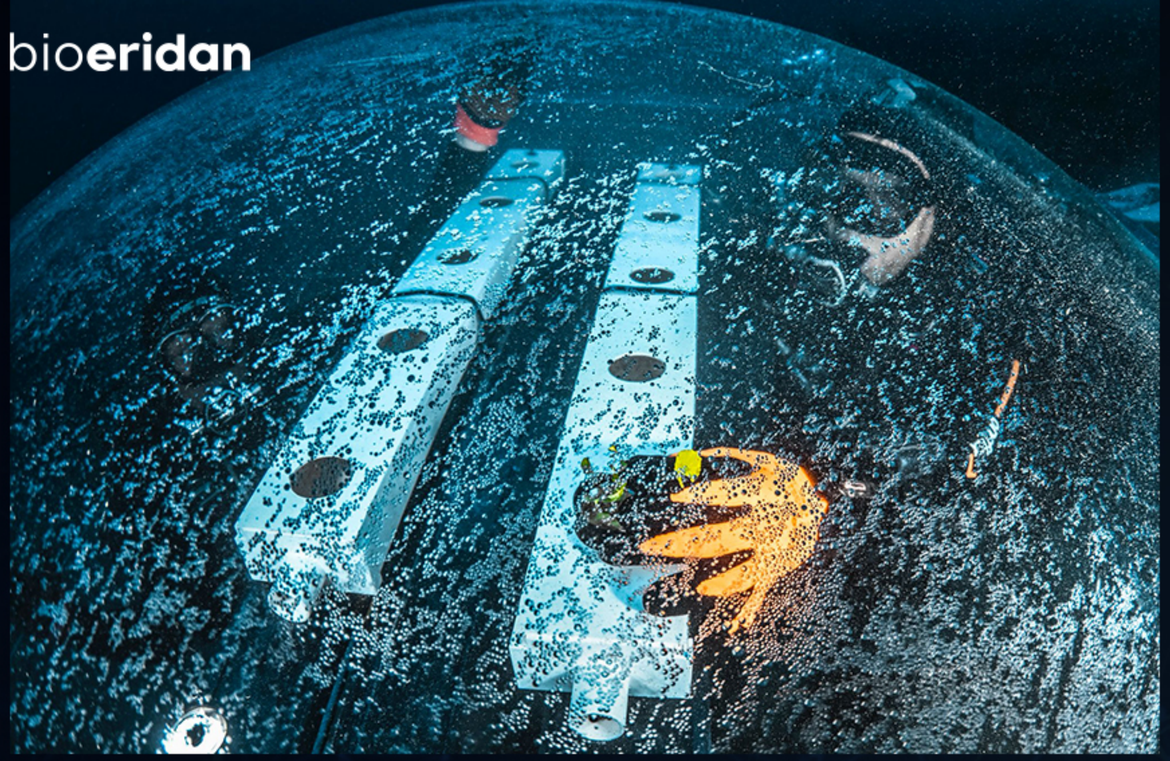
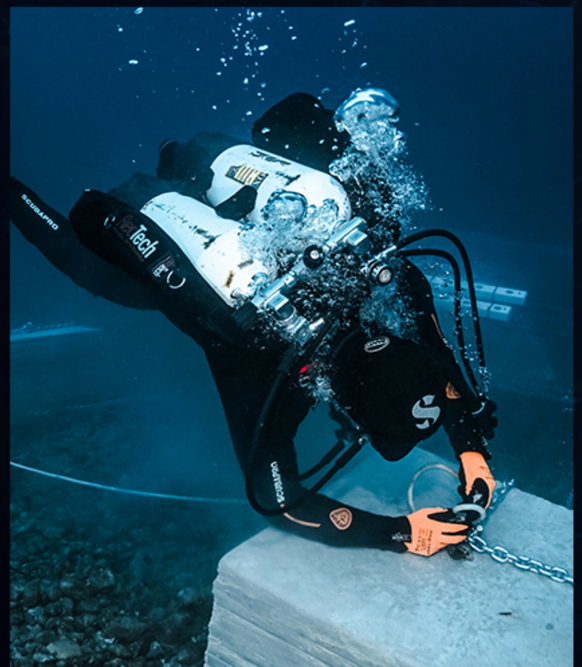




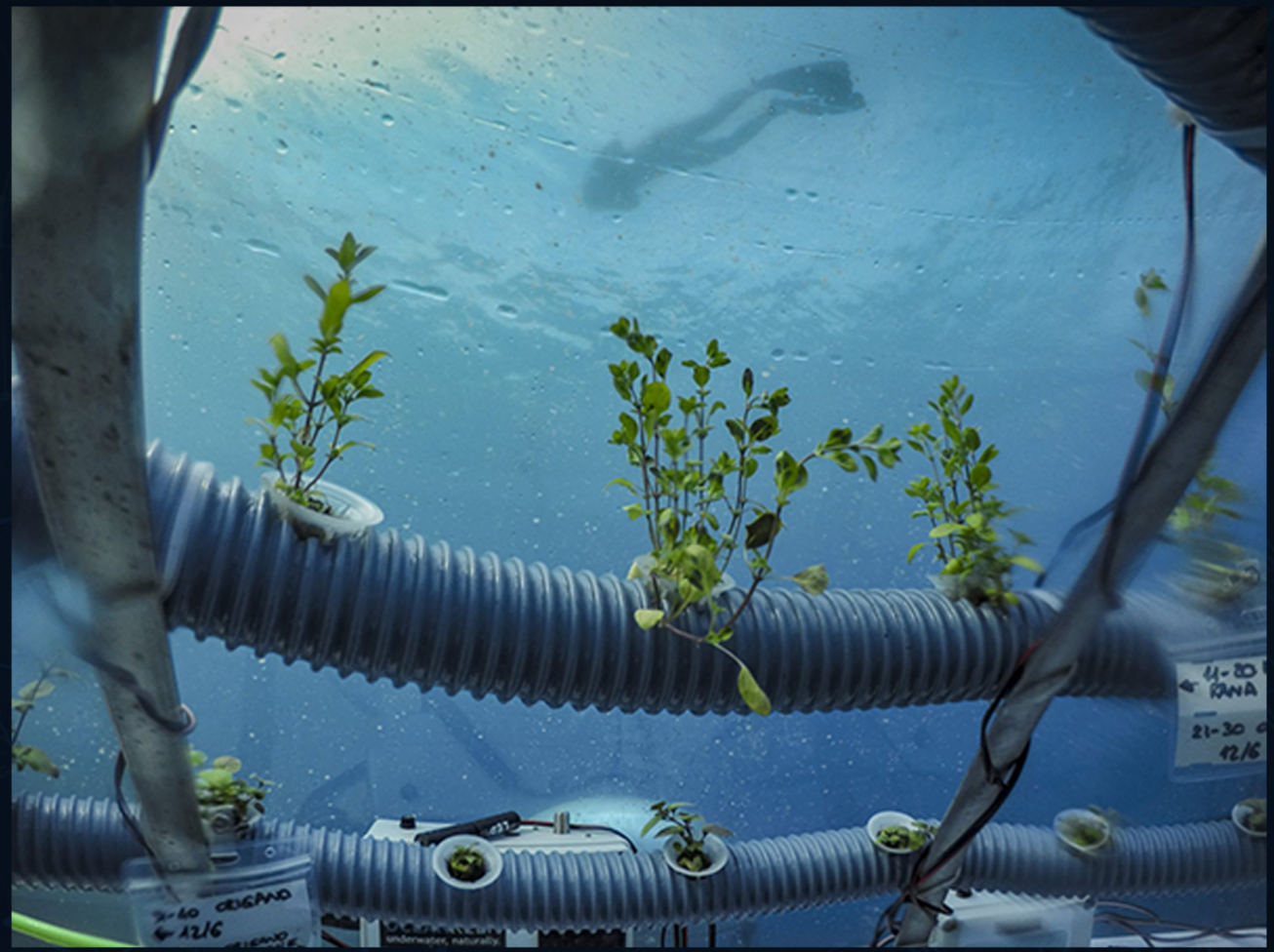
# BIOERIDAN AQUAFARM

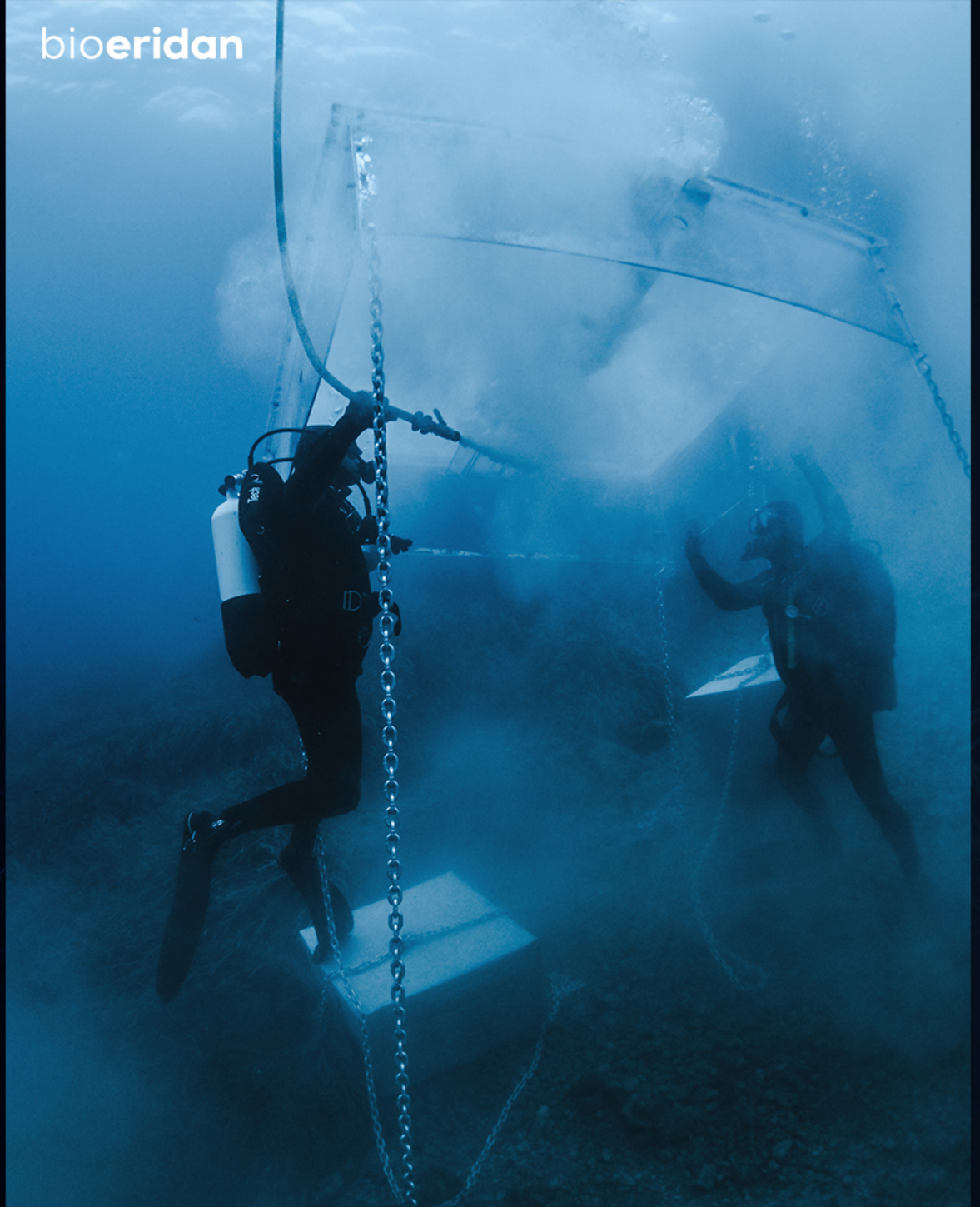
BIOERIDAN Aquafarm project is a controlled underwater structure designed to cultivate marine plants for sustainable product applications. It provides an optimal environment for plant growth, ensuring they thrive while being protected from external elements. Aquafarms are eco-friendly and contribute to innovative, sustainable production methods, supporting green industries like healthcare, skincare & pharmaceutical industry.

# CULTIVATION

The farm uses hydroponic systems adapted for marine environments, where plants grow on submerged structures without soil, absorbing nutrients directly from the water. Advanced biotechnology regulates light, temperature, and nutrient levels, ensuring optimal growth.

A controlled circulation system enhances oxygenation and prevents contamination, while sensors monitor water quality in real time. This closed-loop system maximizes efficiency, reduces environmental impact, and enables large-scale sustainable cultivation.






# WATER PURIFICATION & CLIMATE IMPACT

The underwater farm integrates advanced sensor and filtration technology to purify seawater, regulate alkalinity, and mitigate plastic pollution:

- **Bioremediation Filters** – Use marine plants and bioengineered microorganisms to break down pollutants and absorb heavy metals.
- **pH & Alkalinity Sensors** – Monitor and adjust water chemistry, counteracting ocean acidification.
- Microplastic Capture Systems – Utilize nanofiber meshes and biofilms to trap and degrade plastic particles.
- **CO2 Absorption** – Marine plants and algae absorb $CO_2$, reducing greenhouse gases and contributing to climate change mitigation.

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# SCIENCE REVOLUTION - TELOMERES

Telomeres are protective caps at the ends of chromosomes, made of repetitive DNA sequences and associated proteins. They act like buffers, preventing the loss of essential genetic information during cell division. Every time a cell divides, telomeres shorten slightly, which is a natural part of the aging process. When they become critically short, cells enter senescence or apoptosis, limiting their ability to divide further. Telomere length is influenced by genetics, lifestyle factors like stress and diet, and environmental exposures. Research into telomeres has revealed their critical role in aging and disease, including cancer and age-related conditions, making them a key focus in understanding longevity and cellular health.

# BIOERIDAN RESULT ELIXIR OF YOUTH

BioEridan's Elixir of Youth is an innovative active ingredient created through sustainable aquafarms.

**It serves three markets:**

- **medical**
- **pharmaceutical**
- **skincare**

Combining nature and technology, it revolutionizes health and vitality.

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# LONGEVITY IS JUST A BEGINNING

**Wheat**
Superoxide Dismutase (SOD)

**NATURAL BOTOX**
**Reduces fine lines and wrinkles.**

**Agrimony**
Ellagitannins

**BLOOD SUGAR REGULATOR**
**Regulate blood sugar by inhibiting carbohydrate absorption.**

**Caraway**
Carvone

**PROBIOTIC SUPPORT**
**Stimulates digestion and supports gut health.**

**Black Horehound**
Marrubiin

**NATURAL BENZODIAZEPINE**
**Exhibits sedative and anti-anxiety effects.**

**Watercress**
Phenethyl Isothiocyanate (PEITC)

**WORLD'S HEALTHIEST PLANT**
**Support immune health and cellular repair.**

**Spinach**
Lutein

**ANTIOXIDANT**
**A potent carotenoid that combats oxidative stress.**

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# WHAT HAVE WE DONE

- INVESTED €300,000 IN BOOTSTRAP FUNDING
- LAUNCHED THE AQUAFARM IN THE ADRIATIC SEA
- SUCCESSFULLY CULTIVATED THE PLANT
- COMPLETED PLANT ANALYSIS
- PUBLICITY ON SOCIAL MEDIA
- SECURED LAB SPACE
- MADE DOCUMENTARY MOVIE
- PARTICIPATED IN MULTIPLE SCIENTIFIC PANELS ACROSS THE REGION
- FILED 2 PATENT APPLICATIONS
- FINALIZED INGREDIENT FORMULATION
- SOLD OUR FIRST INGREDIENT FOR PILOT TESTING TO A SKINCARE COMPANY
- STARTED DISCUSSIONS FOR A POTENTIAL CLINICAL STUDY AT HARVARD UNIVERSITY WITH POSITIVE INITIAL FEEDBACK

# BENEATH THE SURFACE

## HBO DOCUMENTARY FILM

A CINEMATIC DOCUMENTARY EXPLORING THE FUTURE OF LONGEVITY, BIOTECHNOLOGY, AND HUMANITY'S EVOLVING RELATIONSHIP WITH NATURE.

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# THE FOUNDER & CEO

**JELENA MILOVANOVIC, PhD**
**Founder • Researcher • Visionary**

- Two Master's degrees
- PhD in Ecology and Enviromental Protection
- PhD Biotechnology and Climate Changes
- The first woman who signed investment agreements in Balkan regions

Visionary biotech founder pioneering the future of longevity science through marine biotechnology, underwater cultivation systems, and sustainable innovation.

**Jelena became the first woman to sign aninvestment agreement of this kind in the region,positioning BioEridan among the new generation of biotech startups emerging from the Balkans.**

With a PhD background in ecology and a second PhD in biotechnology currently in progress, her work bridges cellular science, marine ecosystems, and advanced biotechnology to explore the future ofhuman health and longevity.

**Beyond BioEridan, Jelena is actively involved in international humanitarian and sustainability initiatives across Africa, focused on education, healthcare access, and long-term social impact.**

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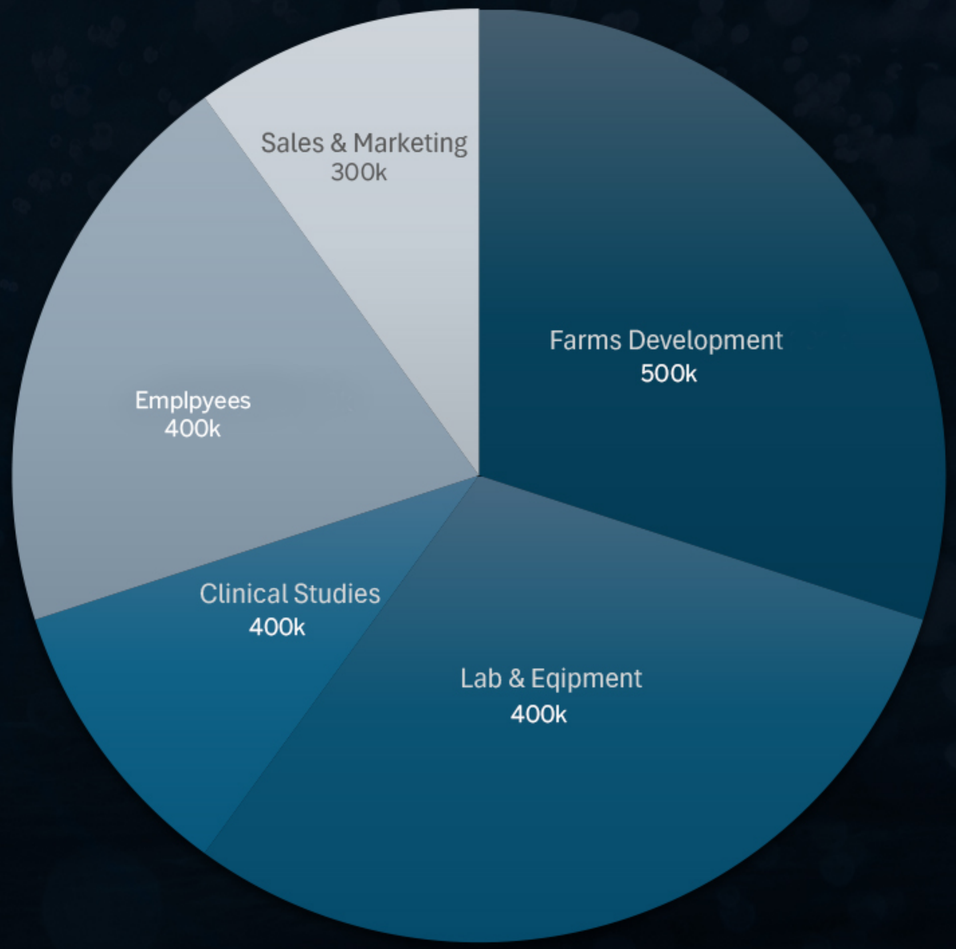
# FOUNDRAISING

Seed round

## 2M $

- Farms Development: 500,000 $
- Equipment for Lab: 400,000 $
- Studies: 400,000 $
- Employees: 400,000 $
- Marketing: 300,000 $



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# INTERNATIONAL RECOGNITIONS

**Most Influential Woman in Biotech Innovation (2026)**
**Women Icon of the Year**
**100 Women Leaders in Africa**
**Philanthropy Visionary of the Year (2026)**

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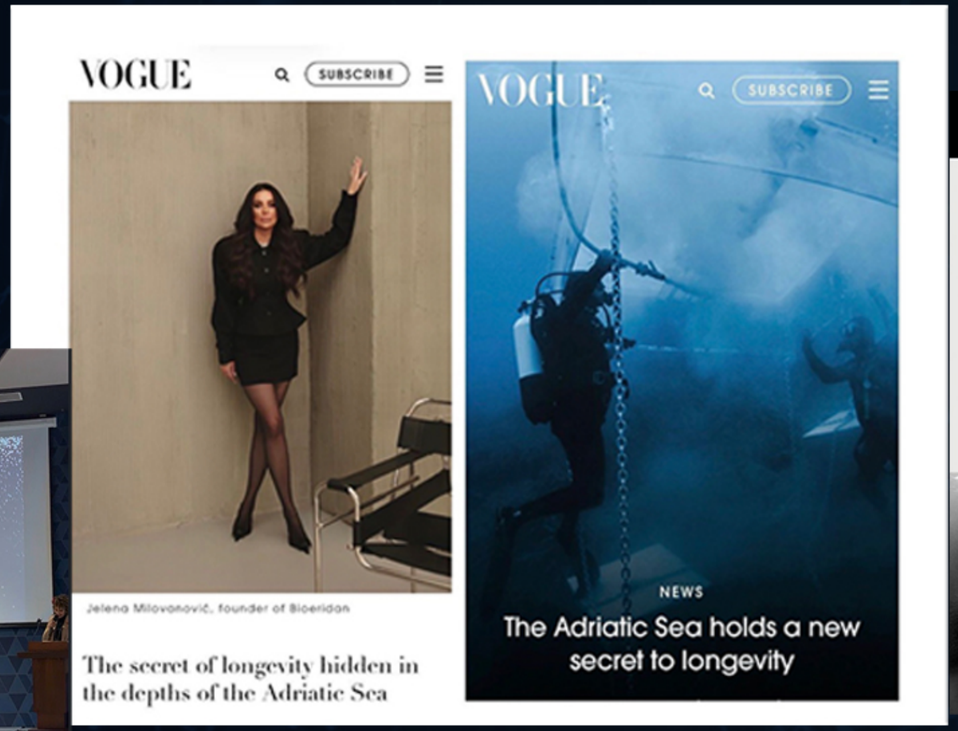
Forbes SRBIJA

# Jelena Milovanović, BioEridan: Naše podvodne farme donose novi pristup zdravlju i dugovečnosti

INOVACIJE • Promo

Foto: Dušan Petrović

19. jan 2026. 11:45



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**Building a future driven by water biotech innovation.**
**Thank you.**

**Contact us: bioeridan@gmail.com**
**Follow us: @bioeridan**