



# Algae4IBD

Health from aquatic resources

**IBD**

**Inflammation**

**Pain**

**Immune  
dysregulation**

**Dysbiosis**



algae4IBD

[www.algae4ibd.eu](http://www.algae4ibd.eu)

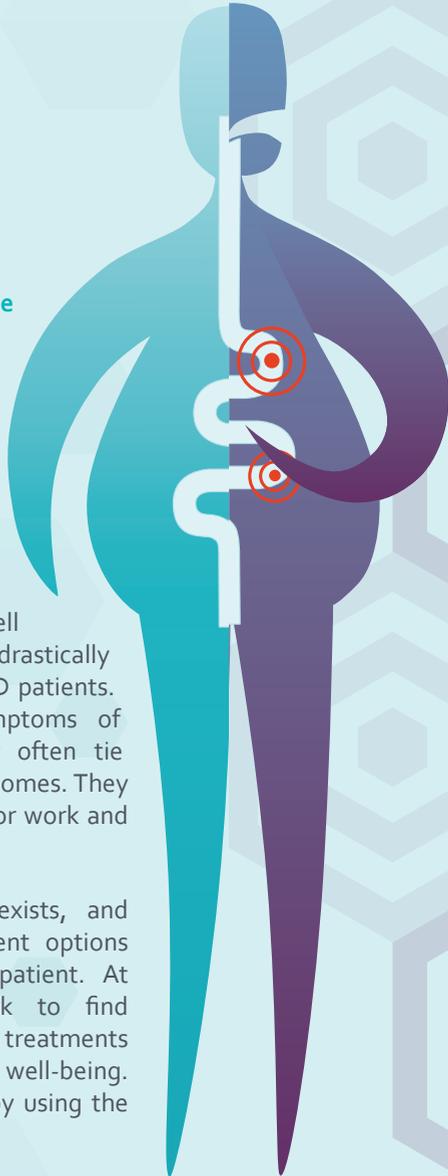
# Novel solutions for pain, inflammation and IBD ...

## What is IBD?

Inflammatory bowel disease (IBD) affects over 6.8 million people around the world and the number is increasing.

IBD tends to strike patients in their 20s and 30s but can also occur in children. Crohn's disease and ulcerative colitis as well as other forms of IBD drastically impact the lives of IBD patients. The debilitating symptoms of this chronic disorder often tie IBD patients to their homes. They call in sick for school or work and cancel social activities.

Currently, no cure exists, and the available treatment options do not help every patient. At Algae4IBD, we work to find solutions and new treatments that improve patients' well-being. We pursue this goal by using the health power of algae.



In IBD, the immune system is dysregulated and causes inflammation inside the digestive organs.

**IBD**

**Inflammation**

When chronic, this inflammation leads to bowel injury and severe pain.

**Pain**

**Immune dysregulation**

IBD patients often have an imbalanced gut microbiome (dysbiosis), too.

**Dysbiosis**

# Novel solutions for pain, inflammation and IBD ...

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Pain relieving

Anti-inflammatory

Antibiotic

Prebiotic



## Why algae?

Have you ever heard that we only know ten percent of our oceans? Many species are still to be uncovered, as is their potential to improve our health. But this also applies to our rivers and lakes, whose great biodiversity may well bring untapped benefits.

Cyanobacteria, micro- and macroalgae, for instance, produce many molecules with properties beneficial to health. They can relieve pain, alleviate inflammation, or boost our gut microbiome. However, most algae remain unstudied and their medical potential unexploited.

**At Algae4IBD, we are studying over 1,000 algae. From these, we will determine the 150 most promising species, reveal their secrets ingredients and turn them into new products.**

A guide about our 150 species will be published: the Algae4IBD algae library

## Our final products

From nature to bedside: With this approach, we will develop conventional medicines, such as pills, from algae compounds as well as nutraceuticals. These are pharmaceuticals that come in the form of powders and oils. Patients can take all these products orally to treat their symptoms with ease.

From nature to plate: Here, we will produce food supplements and smart functional food by adding the identified health compounds to yogurt, bread, and gummi bears. These products can contribute to a healthy diet and help prevent the onset of IBD.

**Our algae products can increase patient well-being while reducing hospitalisation and healthcare costs – to create benefit for all!**



**... from nature to stores and pharmacies in less than four years.**

“Watch our video  
to learn more  
about Algae4IBD.”



## Our Team

We work to improve the well-being of people who suffer from IBD.



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