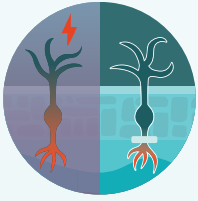


# Health from aquatic sources

## Treating diseases with natural compounds



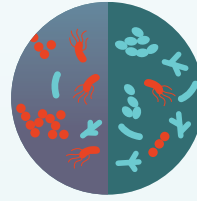
### Pain relieve

Painkillers block the signal that the pain area sends to the brain. If our brain doesn't notice the pain, neither do we.



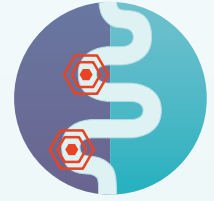
### Anti-inflammatory

Anti-inflammatory drugs regulate the immune system, reducing tissue damage and the associated pain.



### Microbiome imbalance

Prebiotics nurturing beneficial gut microorganisms can help get the gut microbiome in shape – and therefore our health.



### IBD - solutions

Effective medication for inflammatory bowel disease (IBD) treats pain and inflammation in the gut, and restores a healthy gut microbiome.

## The untapped health potential in our oceans, rivers and lakes

Algae produce numerous molecules, many of which have health-beneficial properties. However, many algae species and the effects of their molecules are unexplored. In Algae4IBD, we are studying 150 different algae, looking for compounds with pain-relieving, anti-inflammatory, or prebiotic effects.

Our goal: to develop algae-based solutions for pain, inflammation and IBD

## Dietary products to prevent IBD and medication to treat its symptoms



### Functional foods

Foods enriched with algae compounds easily integrate the health benefits of algae into our diet.



### Food supplements

Food supplements provide the health-promoting compounds of algae in higher concentration than functional food does.



### Nutraceuticals

Nutraceuticals contain high concentrations of health-promoting compounds rigorously tested for their effects.



### Pharmaceuticals

Testing and producing algae compounds to the highest medical standards ensures their viability as therapeutics for IBD.



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement N° 1011000501