

ICELANDIC BUSINESSES IN

# OCEAN BIOTECH

# OCEAN BIOTECHNOLOGY

This list of Icelandic businesses within ocean biotechnology was compiled by the Iceland Ocean Cluster and showcases the sector's main players.

The Iceland Ocean Cluster works with select companies in various fields within the Icelandic ocean industry to accelerate their growth through innovation by initiating new businesses and connecting companies, people and ideas.

See more at [oceancluster.is](http://oceancluster.is)





## ZYMETECH

zymetech.com

Zymetech is the world leading manufacturer of high-purity protein-cleaving enzymes from North Atlantic cod. Zymetech is also at the forefront of therapeutic formulations that maintain activity of the enzymes and provide effective treatment for various clinical conditions. Their technology of developing and manufacturing formulations containing marine-derived enzymes is called Penzyme® technology. Their core and clinical research has demonstrated effectiveness of Penzyme® against a variety of skin conditions, wound healing and viral and bacterial infections. Zymetech has in its portfolio a number of medical devices and cosmetic products based on the Penzyme technology.

## LIPID PHARMACEUTICALS

lipid.is



Lipid Pharmaceuticals was founded in 2009 by a scientific research team, through the co-operation of The University of Iceland, The National University Hospital of Iceland and Lýsi hf., Iceland's leading producer of marine oils. Lipid Pharmaceuticals develops medical products from omega-3 fish oil. It's research on omega-3 fatty acids dates back to 1995 and has led to the development of its lead product suppositories, as well as an ointment, containing free fatty acids derived from cod-liver oil.

## 3Z

3z.is



3Z was founded in 2008 and is a preclinical drug company focusing on the discovery of Central Nervous System (CNS) drugs. It provides pharmaceutical companies with expert services in high throughput screening of small molecule libraries for CNS effects. By automatically monitoring behavior in thousands of zebrafish larvae over 24 hours, using custom built data analysis routines, 3Z can quickly and cost effectively screen thousands of compounds in vivo, significantly reducing the cost and time of CNS drug discovery.

## CODLAND

codland.is



Codland was founded in 2012 by the Iceland Ocean Cluster. Codland is a network of companies with a common goal of increasing the value of fish products and raise awareness of Icelandic fisheries. Codland specializes in total utilization of fish products.



## RISK MEDICAL SOLUTIONS

risk.is

Risk Medical Solutions was founded in 2008 by a group of doctors, statisticians' and business people. The company focuses its efforts in developing innovative IT-solutions for medical healthcare systems worldwide. The company's mission is to use the individual risk and severity profiles to find the optimal use of healthcare resources, such as medication, surgery, laser treatment, surveillance and follow-up, to optimize the health outcome of that particular individual while at the same time optimizing the allocation of health care resources available



## PRIMEX

primex.is

Primex is an Icelandic marine biotech company and is a global leader in the manufacture and supply of pure chitin and chitosan derivatives. Primex manufactures chitosan from shrimp shell. Primex is located in Iceland but born global and dedicated to innovate and market scientifically sound and novel natural ingredients for use in numerous markets like, nutritional, cosmetic, food and biomedical.



## MARINOX

marinox.is

Marinox is an Icelandic innovation company that produces UNA skincare™ cosmetic brand. The products contain unique bioactive substances derived from Icelandic marine algae. Marinox has developed a natural method to isolate and produce the bioactive ingredients of this unique Icelandic resource and thereby ensure maximum activity of the products.



## GENIS

genis.is

Genis develops methods for using aminosugars in treatment of inflammatory and degenerative conditions in bone, cartilage and other tissues. The aminosugars are derived from shrimp shells. Genis owns one granted patent in Europe, Japan and USA and two pending patents in more than 30 countries.

## HERBERIA

herberia.is

Herberia is a pharmaceutical company in the business of developing herbaceuticals (e.g. alga) for European markets. Herbaceuticals are regulated over the counter herb-based medicine produced with the same quality standards as pharmaceuticals. Their herbaceuticals will be marketed to prevent and treat symptoms of mild common diseases and will be sold in pharmacies without prescription.



## LYSI

lysi.is

Lysi was established in 1938 and is one of the world's largest producer of marine oils for human consumption and an original pioneer of fish oil (cod liver oil and other marine lipids) production. Lysi has a leadership position in its field, fuelled by expertise in manufacturing high demand fish oil products from both Icelandic fish stocks and imported crude fish oils from other parts of the world. Lysi offers a broad range of natural health products.



## ATLANTIC LEATHER

atlanticleather.is

Atlantic Leather was established in 1994 and is an Icelandic tannery which is a leading manufacturer of exotic leather from fishskins; salmon, perch, wolffish and cod each with its own unique character, in a diverse range of colours, textures and finishes. The fish leather produced at Atlantic Leather is environmentally friendly.



## KERÆCIS

## KERECIS

kerecis.com

Kerecis has developed the unique, patent-pending MariGen™ Omega3 fish-skin acellular dermal matrix transplantation technology, where complete acellular fish skin is used for tissue regeneration by transplantation. The MariGen Omega3 transplantation technology is used to reconstruct the skin in chronic wounds, for hernia repair, breast reconstruction and for dura restoration. Other tissue-transplant products are based on tissues of human and porcine origin. The fish-skin-based MariGen Omega3 technology offers improved economics and clinical performance, as well as reduced disease transfer risk and no cultural constraints on usage.

## iceprotein

## ICEPROTEIN

iceprotein.is

Iceprotein ehf. is an Icelandic biotech company, that focuses on research and development of modern „green“ production technology to utilize valuable and highly biologically active aquatic proteins and protein derivatives from by-products of the Icelandic fishery and aquaculture industry. Iceprotein´s aim is to utilize the rest raw material from the Icelandic fish industry to ensure the optimal use of a natural resource. Products in pipeline include Atlantic cod protein hydrolysates, Arctic char protein hydrolysates and Arctic shrimp shell protein hydrolysates.

## STOFNFISKUR

stofnfiskur.is

Stofnfiskur is the world's leading company in the selective breeding and production of salmonid eggs. The company is unique in being able to supply healthy Atlantic salmon and Arctic char eggs on a year-round basis. All broodstock is reared in house, on land in large broodstock farms. Sea- and freshwater is pumped from geothermal- and freshwater wells ensuring the best disease free environment in the world. On-going involvement in research and breeding developments ensures that Stofnfiskur will continue to offer unrivalled service to the fish farming industry.

## HAFKALK

hafkalk.is

Hafkalk produces high quality marine supplements from calcified red algae. All products feature natural main ingredients from marine sources, supplemented with high-quality vitamins and minerals to maximise the benefits of these unique constituents. No Hafkalk product contains any fillers or additives, only the pure active ingredients.



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