

# Bioinspired Materials

## Context

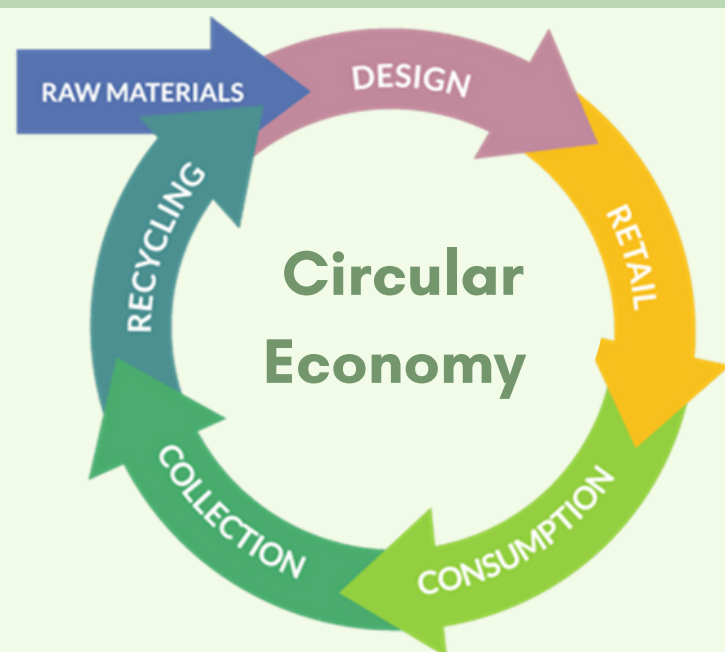
41%

Of Catalan aquifers are contaminated by nitrates from pig slurry

139

Municipalities' water supply networks have nitrate concentrations higher than the permitted limit

Bioinspired Materials seeks to turn this problem into an opportunity by using the circular economy



## Project

Physicochemical  
Treatments

Slurry

Biological  
treatments

High nutritional  
value feed



Obtention of useful molecules from slurry



More efficient products than the conventional ones in economic and environmental terms

## Challenges

- Produce on an **industrial scale**
- Transfer this technology to the **real world**
- Bring the products to the **market**

## Our motivation

For us, as future **biologists**, this project is of great importance, as is a clear example that from the research world great benefits can be achieved to contribute to a **more sustainable planet**.



## BIOM

After several talks between friends about the impact that our current lifestyle has on the planet, in **2019**, in **Barcelona**, **BIOM** emerged as a **spin-off** company from **Pompeu Fabra University**. From this process, the simple idea of working in the search for organic materials arises.



Founders

Javier Macía, PhD  
Ramón Farré-Escofet  
Carlos Rodríguez-Caso, PhD

### Who can contribute to the project?

- **Institutions** by providing economic financing and promoting the company
- **Companies** from the **livestock industry** by buying the sustainable feed and providing the slurry to create more products
- **Researchers** by following their path of making the research field more sustainable

## Goals

- **Reduce contamination** by using waste as raw material for their products
- Contribute to use new **environmentally friendly ways** to generate new products
- Work to achieve the **SDG** "Clean water and sanitation"

6 CLEAN WATER AND SANITATION



## Potential

This project can be used as an example for other companies to **make a profit** from **polluting materials** instead of using others that contribute to contaminate the planet.



For **more information** about the company and their products, do not hesitate to visit their **website**!



SCAN ME