



**Shannon ABC**  
applied biotechnology centre

# Microalgal Innovation at Shannon ABC

**TECHNOLOGY GATEWAYS**  
delivering solutions for industry  
an **Enterprise Ireland** network

 **ENTERPRISE  
IRELAND**  
where innovation means business

 **MTU**  
Ollscoil Teicneolaíochta na Mumhan  
Munster Technological University

 **LIT**  
INSTITIÚID TEICNEOLAÍOCHTA  
LUIMNIGH

**Dr. Sushanta Kumar Saha**

22/01/2021

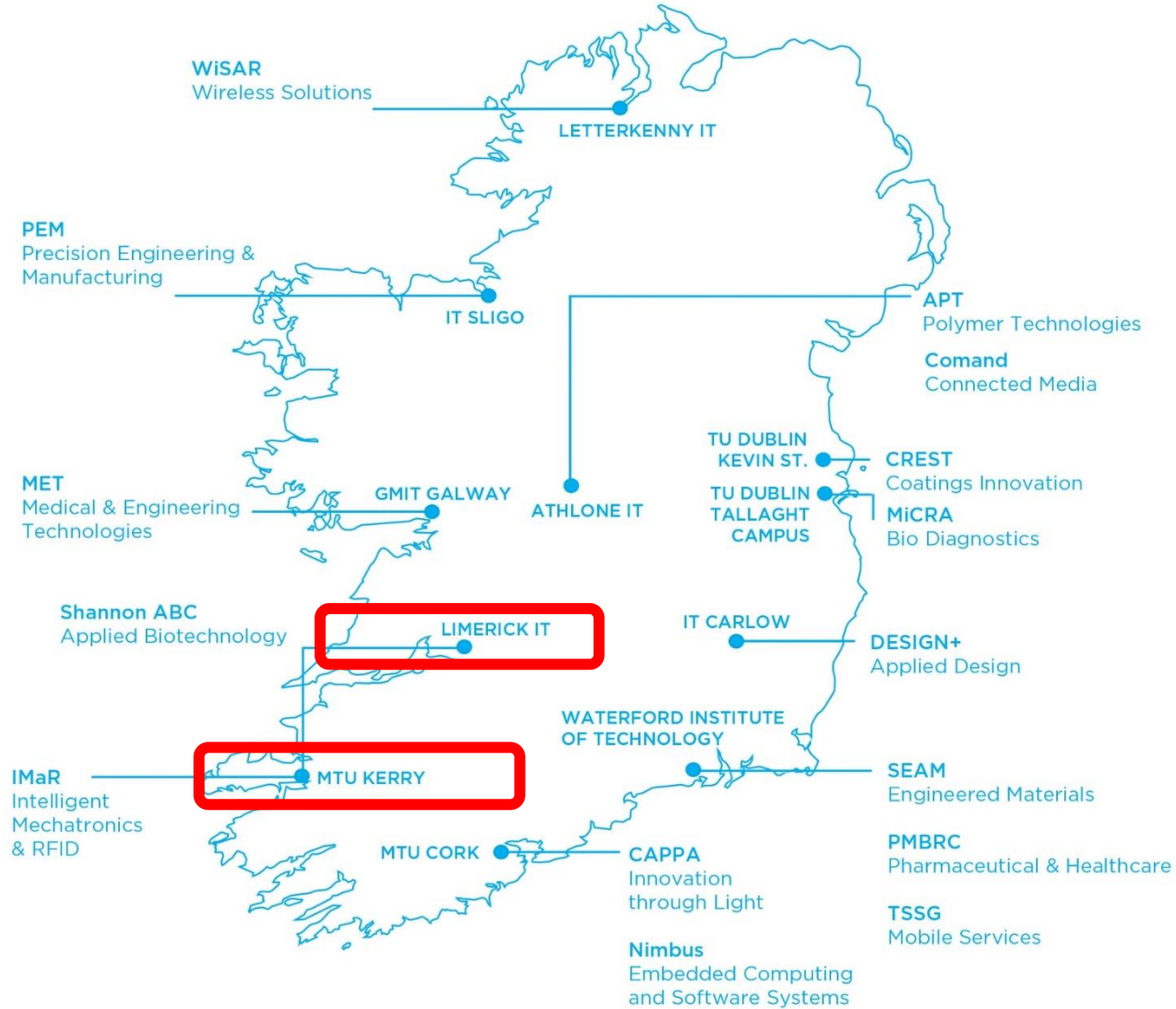
[www.shannonabc.ie](http://www.shannonabc.ie)

# About Shannon ABC



- Collaborative response from the Munster Technological University and Limerick Institute of Technology to the needs of Industry
- Research Centre and Technology Gateway Centre established through core funding from Enterprise Ireland

# About Shannon ABC



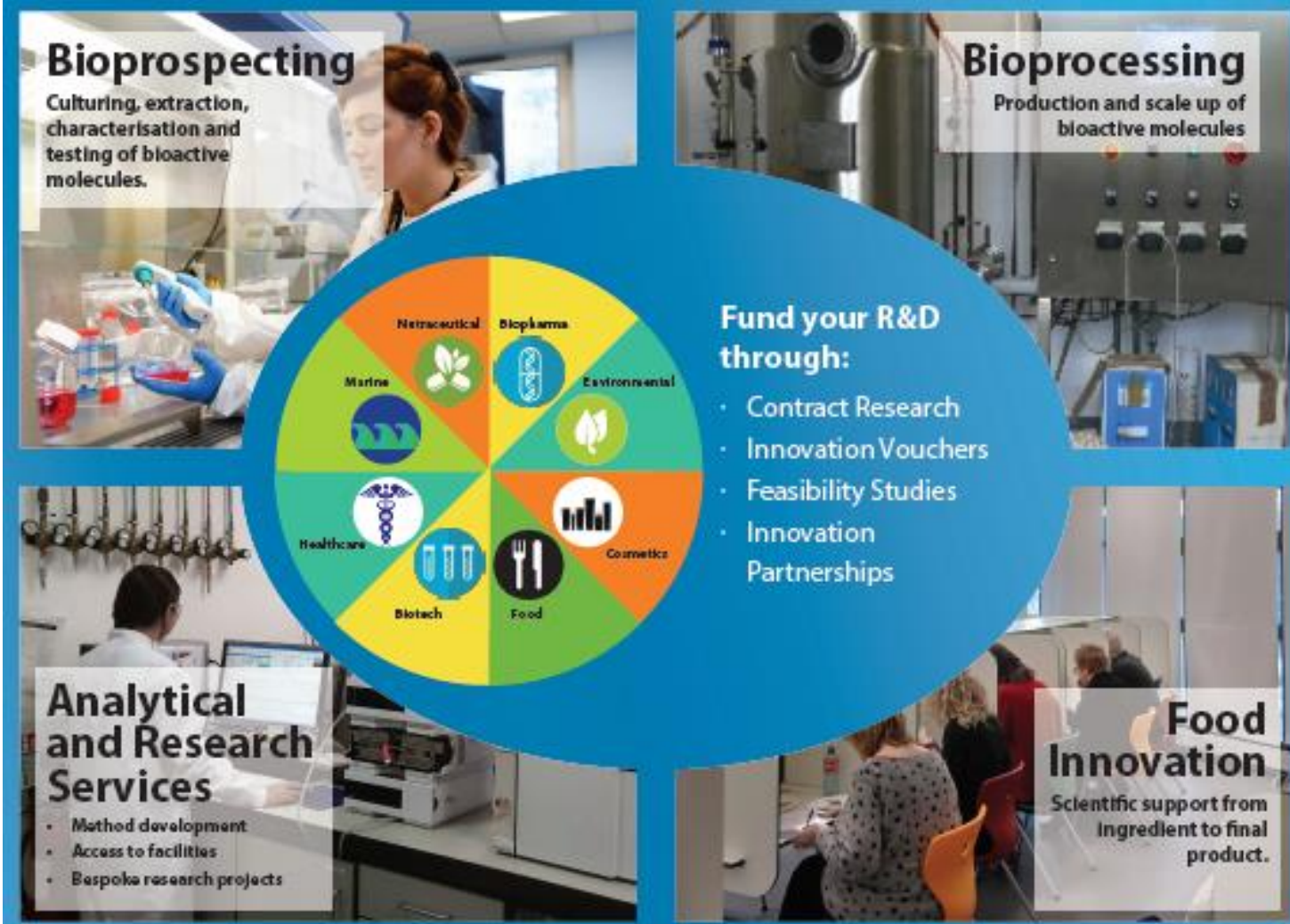
# About Shannon ABC



*“Shannon ABC responds to the challenges of **biotech, food and life science** industries through the sustainable development of viable and cost-effective processes and products from bio-resources. This collaborative and risk management approach improves our client’s competitiveness and competence and facilitates the transfer of these innovative scientific solutions”*

# About Shannon ABC

## Technology Themes



**Bioprospecting**  
Culturing, extraction, characterisation and testing of bioactive molecules.

**Bioprocessing**  
Production and scale up of bioactive molecules

**Analytical and Research Services**

- Method development
- Access to facilities
- Bespoke research projects

**Food Innovation**  
Scientific support from ingredient to final product.

**Fund your R&D through:**

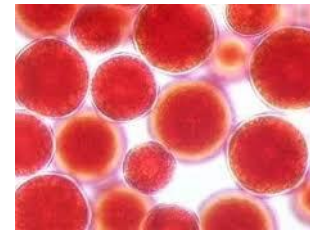
- Contract Research
- Innovation Vouchers
- Feasibility Studies
- Innovation Partnerships

**Central Diagram:**

- Nutraceutical
- Biopharma
- Marine
- Environmental
- Healthcare
- Biotech
- Food
- Cosmetics

# Microalgal Innovation

## How it started...



# Microalgal Biobank



**Isolation and purification**

**Biobank establishment**

# Microalgal Innovation

## How its going...



algae health



**Shannon ABC**  
applied biotechnology centre



IRISH RESEARCH COUNCIL  
An Chomhairle um Thaighde in Eirinn





# Microalgal Innovation

## How its going...

### €800,000 FUNDING FOR SHANNON APPLIED BIOTECHNOLOGY CENTRE

IRISH TECH NEWS \* JUNE 9, 2020

BUSINESS

ENTERPRISE IRELAND

INVESTMENT

IRELAND

MEDTECH

RESEARCH

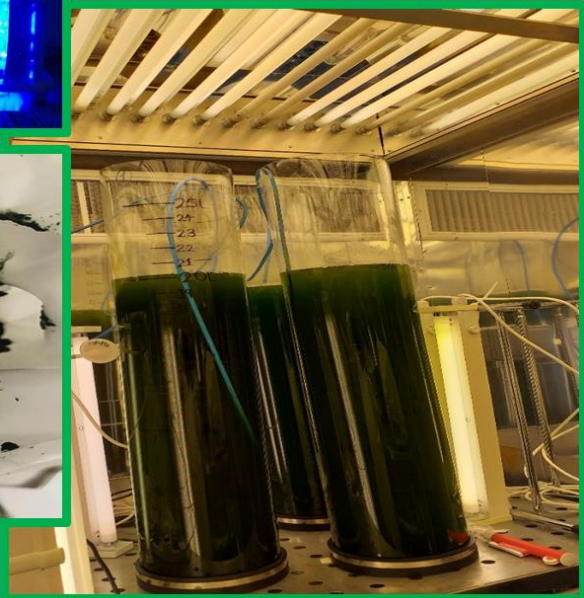
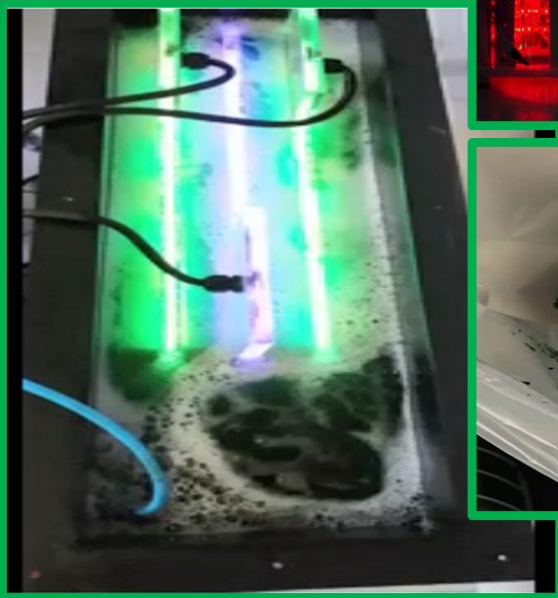


Listen to this article

2:49

Shannon Applied Biotechnology Centre (ABC), an Enterprise Ireland funded Technology Gateway, has been awarded in excess of €800,000 for new equipment to help support Irish companies. Shannon ABC is a collaboration between the Institute of Technology, Tralee and Limerick Institute of Technology and works with companies across the Life Sciences, Food and Biotech sectors.

# Microalgae cultivation suite...



# Microalgal Innovation



TanOrganic



**ENTERPRISE IRELAND**  
where innovation means business

Sunscreen  
compounds

Currently at  
formulation stage



**BIM** Ireland's  
Seafood  
Development  
Agency



eagasc  
The Science of Farming and Food



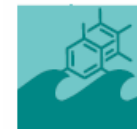
**MTU**  
Ollscoil Teicneolaíochta na Mumhan  
Munster Technological University



**Marine cyanobacteria as  
potential alternative source  
for GABA production**



**Bioactive Lipids of Marine Microalga  
*Chlorococcum* sp. with Anti-  
Inflammatory and Anti-Thrombotic  
Activities**



*marine drugs*



**Shannon ABC**  
applied biotechnology centre

**Thank you for your time**

**TECHNOLOGY GATEWAYS**  
delivering solutions for industry  
an **Enterprise Ireland** network

 **ENTERPRISE IRELAND**  
where innovation means business

 **MTU**  
Ollscoil Teicneolaíochta na Mumhan  
Munster Technological University

 **LIT**  
INSTITIÚID TEICNEOLAÍOCHTA  
LUIMNIGH

[www.shannonabc.ie](http://www.shannonabc.ie)