

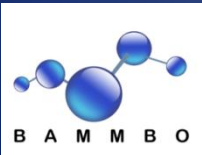
BAMMBO - Products from the Sea



Daniel Walsh
LIT

SciFest
@LIT

Welcome Students



So what's BAMMBO



Is a

Science RESEARCH PROJECT

People All Working on Common
Problem to Find a Solution



BAMMMBO is also the short name 4

B Biologically

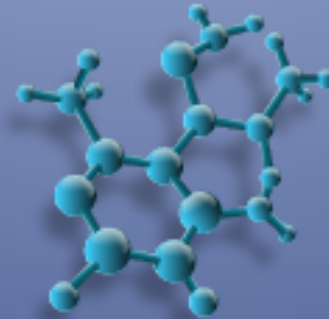
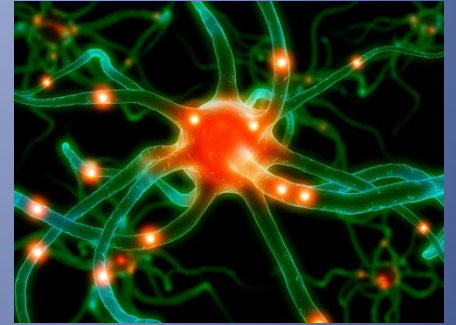
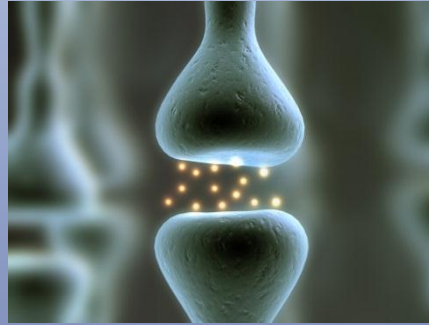
A Active

Molecules
Of

Marine

Based

O rigin





MOLECULES ?



BIOLOGICALLY ACTIVE ?

THE ANSWER IS VERY
SMALL....

<http://learn.genetics.utah.edu/content/begin/cells/scale/>



So *WHATCHA DOIN* ??

Search Seas & Oceans
for Organisms we can

Grow and **Use** to
make our life
BETTER



Farming or **CULTURING** Organisms AWAY from SEA
lets us Harvest **Products** from them.



NO NATURAL DESTRUCTION



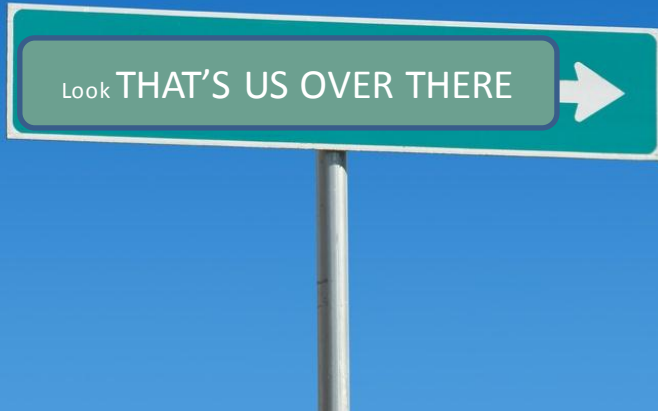
CHEAPER



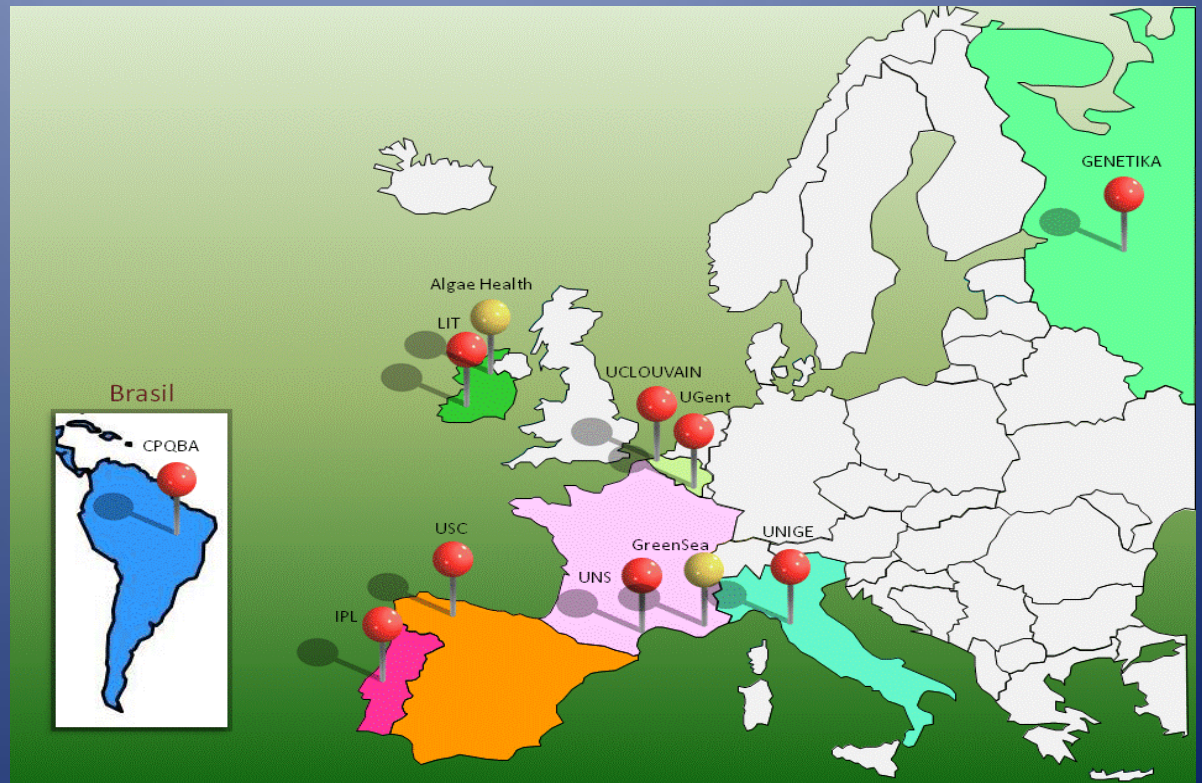
ENVIRONMENTALLY FRIENDLY



HOORAY!!



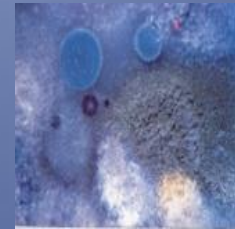
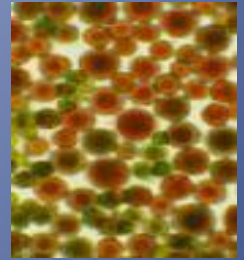
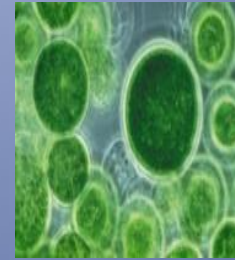
We're From HERE





For
Unique
Organisms

TO GET & GROW THESE



Sponges

Fungi

Bacteria



Macroalgae (Seaweed)

Microalgae

BUT....Growing Organisms from their Natural Home Not Easy



+



=

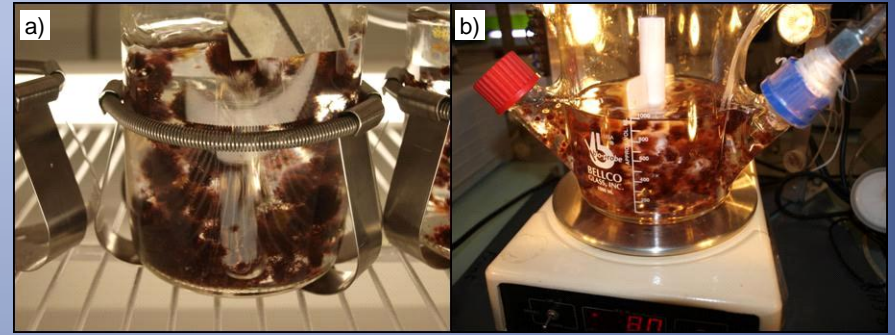
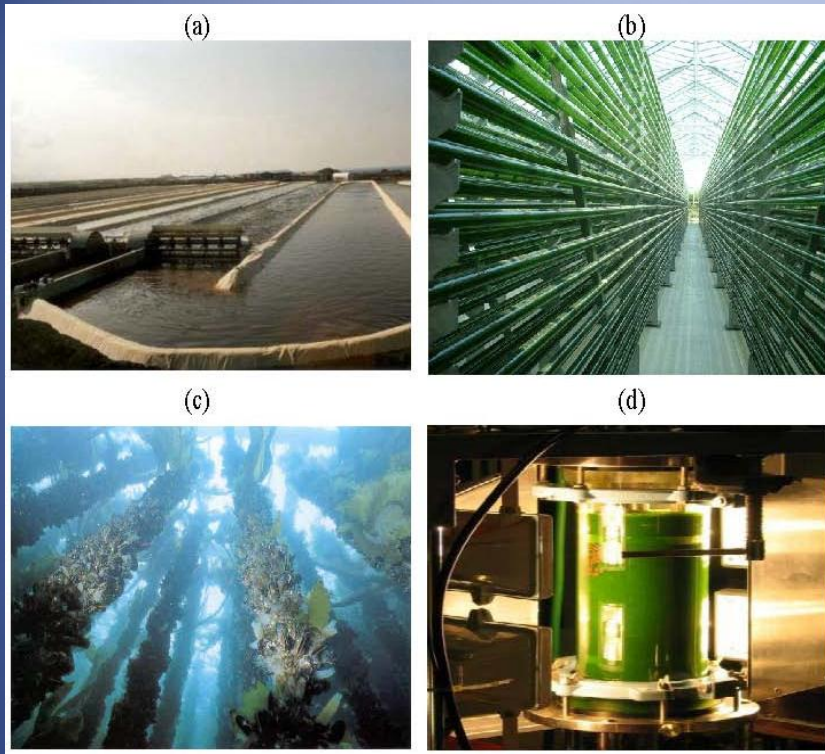


New Home

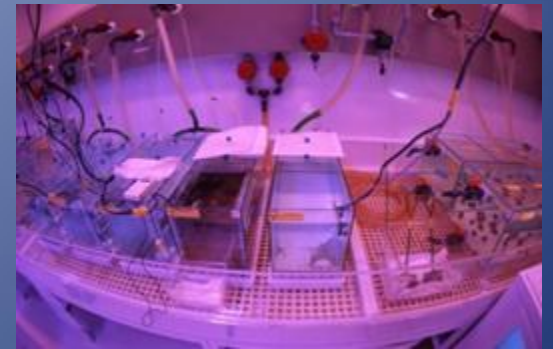


So we USE =>

Organism Evolve in their Environment



Give them **New Homes** in **Bioreactors**



Sponges

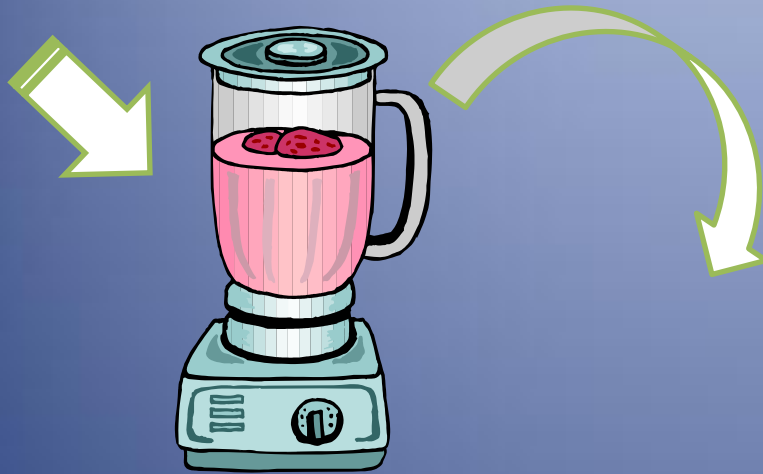


Seaweed



Microalgae

THEN WHAT ?



Blend or **Extract 1st**



2nd Split or
Fractionate



Components
Or

Products



Products for USE in WHAT ???

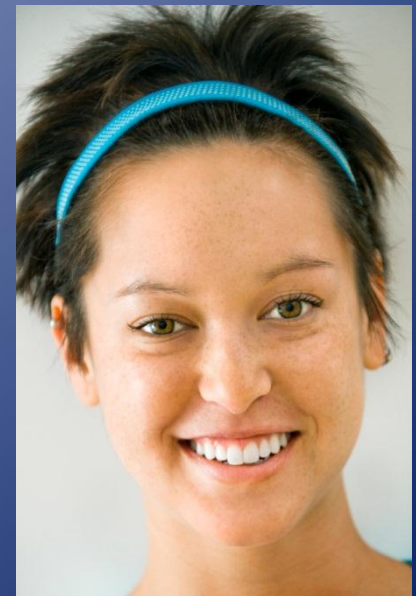


Infant Formula & Food

**Polyunsaturated
Fatty Acids**



Brain & IQ



Healthy Skin

Products for USE in WHAT ???



Astaxanthin



Lutein

**Pigments &
Colours**



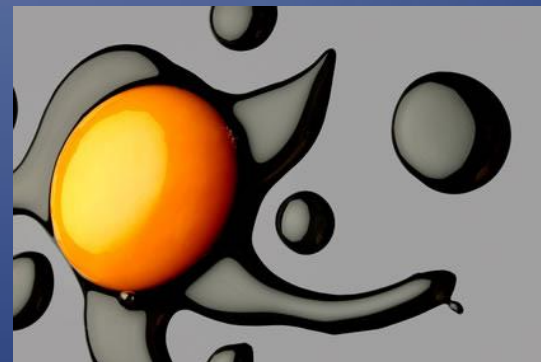
Supplements



More Appealing salmon



Healthier Eyes



Yellower
Eggs

Products for USE in WHAT ???



Washing Powders

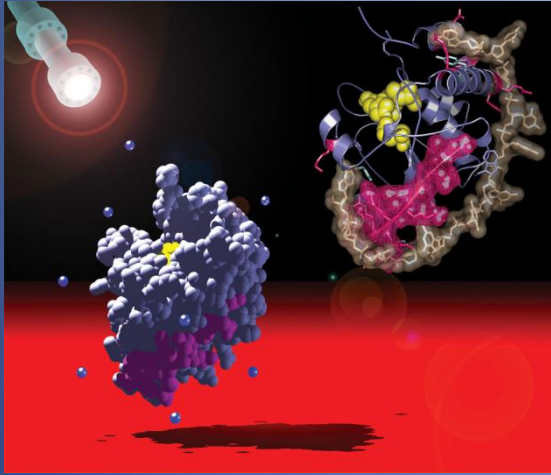


Oil
Eating Enzymes
'Lipases'



Environmental Clean Up

Products for USE in WHAT ???



Phosphate
Releasing
Enzymes
'Phytase'



Animal Feed



Moooo!



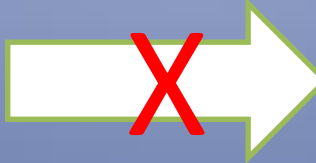
So this



Products for USE in WHAT ???



**Anti-Fouling
Paints**

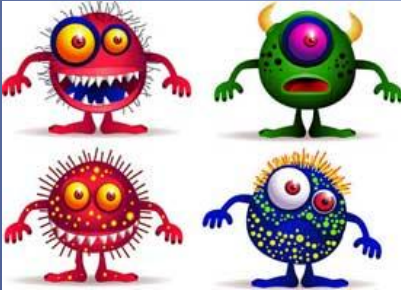


Slow Boat



Boat damage

Products for USE in WHAT ???



**Anti-microbial
Compounds**

**Pathogen Free
Happy Feet
& Skin**

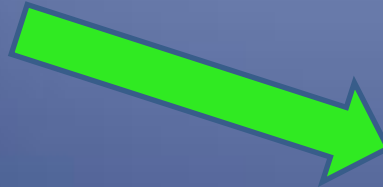
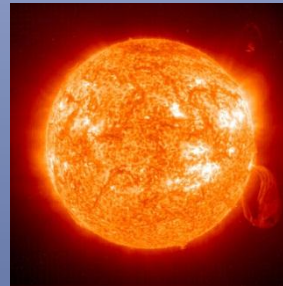
Products for USE in WHAT ???



Don't Go Like This



Aged Damaged Skin



Anti-wrinkle
&
Skin care
Cosmetic
Products



Why Do We Do ALL This ?

ITS.....

Interesting

Fun

Helps Companies Grow



SO WE CAN TEACH IT TO

YOU

Thank you for your attention

BAMMBO

Project supported by FP7



www.bammbo.eu



See www.bammbo.eu
project information, co-
details
& public deliverables

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