



CommNet



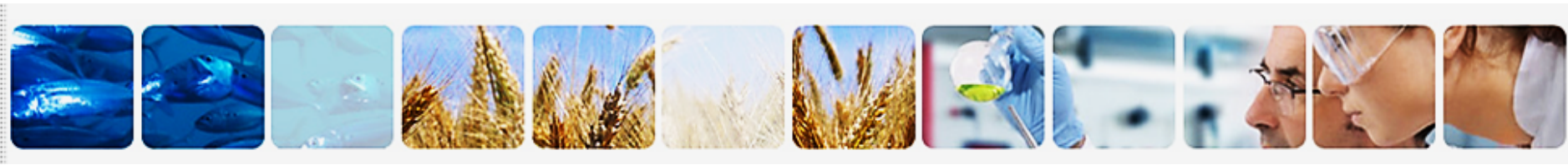
CommNet

Education

Phase 2

Biotechnology





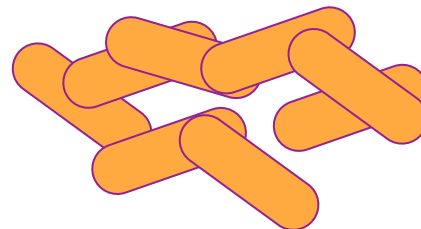
Biotechnology – what is it?

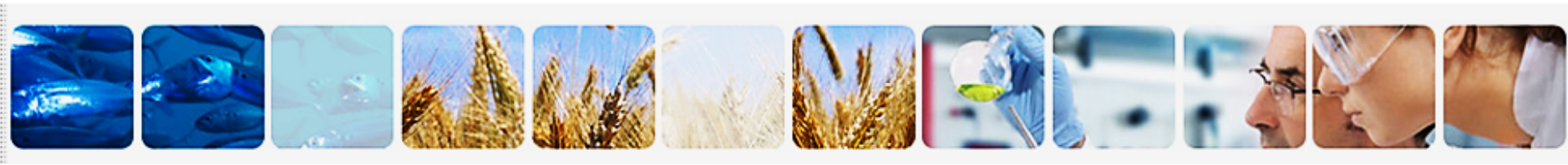


What do you think the word **biotechnology** means?

It means using living things to create something that is useful.

The 'living things' are usually micro-organisms which are very small living things!



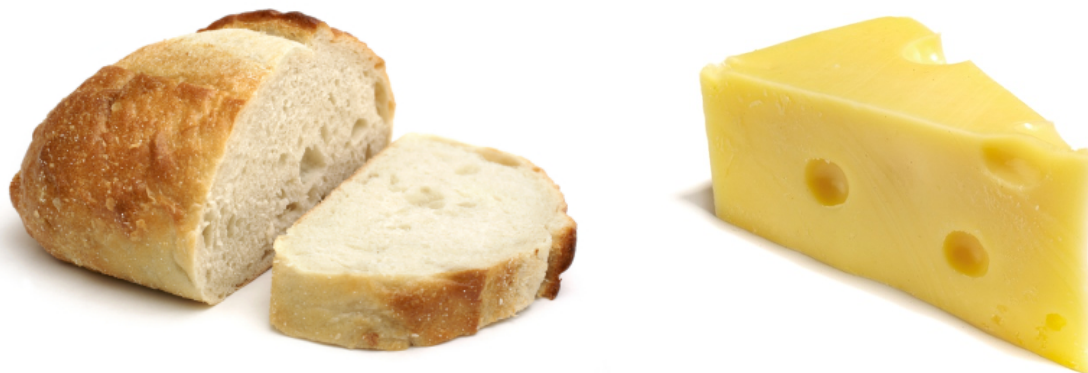


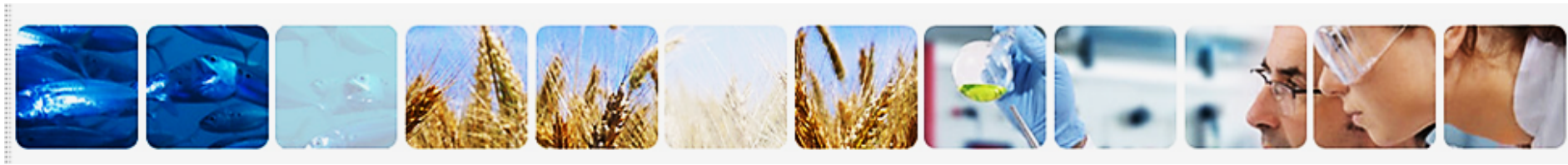
Biotechnology – how is it used?

CommNet

Biotechnology is used to:

- make food, e.g. bread, yogurt or cheese;
- make medicines, e.g. antibiotics.

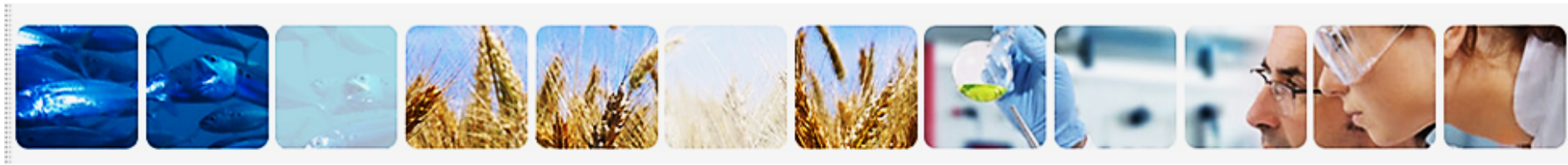




Biotechnology – is it new?

Biotechnology sounds like something new but it has been happening for thousands of years!

- It has been used to brew beer, make bread and cheese for hundreds of years.
- The antibiotic, Penicillin, was made on large scale during the Second World War (1940s).



Biotechnology and bread



How do you think biotechnology is used to make bread?

Yeast is a micro-organism which is used to make bread dough.





Biotechnology and bread



Yeast is added to flour. Warm water is added and this brings the yeast to life. As the yeast grows it releases a gas called carbon dioxide, the gas makes the dough rise.



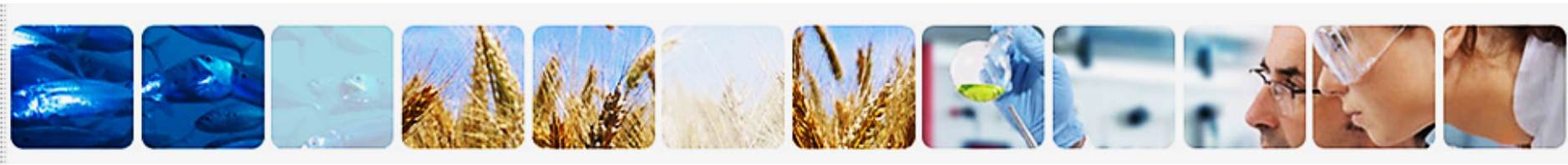


Biotechnology and yogurt

CommNet

Find out how yogurt is made and identify where biotechnology is used.





Biotechnology – future?

How do you think Biotechnology will help us in the future?

Could it...

- provide a source of energy?
- help us to recycle?
- Make feed for animals?



CommNet



CommNet

Education
Phase 2
Biotechnology

