

# BIOOLIE

L'extraction au sens **propre**





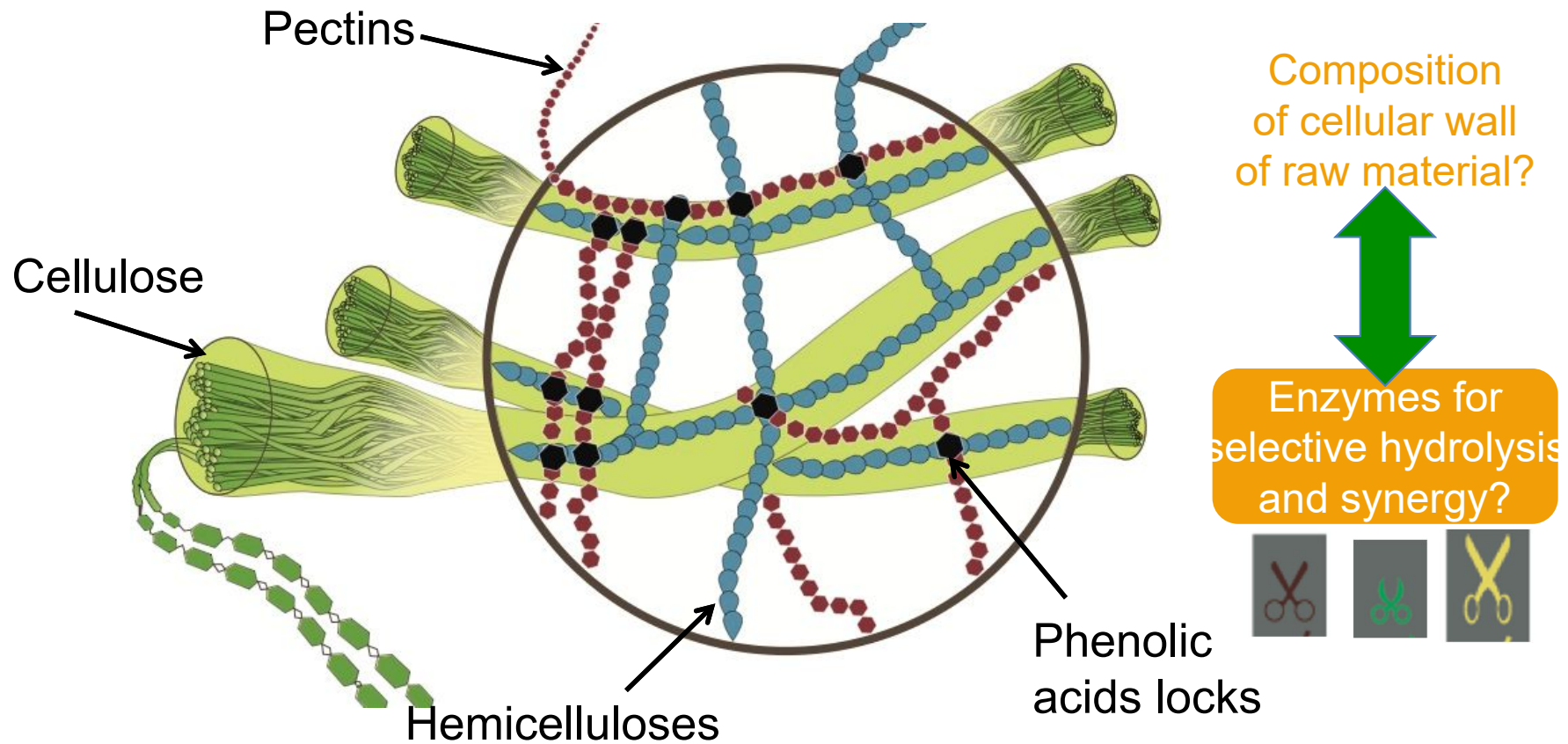
## WHO WE ARE

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- **Industrial company**, created in **January 2012**, specialized in enzymatic extraction of plant origin **natural ingredients**
- 9 people including **4 PhD & 3 engineers**
- **250 plants** studied – 80 R&D contracts – **6 patents**
- Catalog of **22 cosmetic** ingredients et **2 nutraceutical** ingredients
- Present in **25 countries** through a distribution network and partners
- **Our Business activity:** design, develop, produce and Commercialize natural ingredients for Cosmetic and Nutraceutical markets
- **Our proposal:**
  - Development of our own ingredients
  - Service delivery (R&D, patent licence, production)

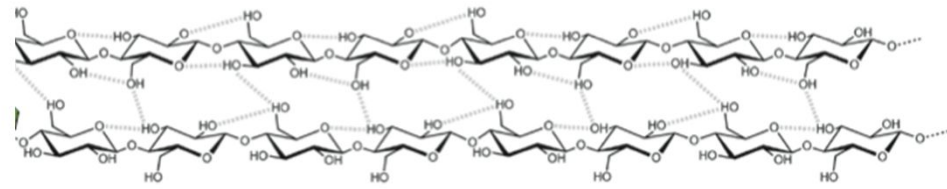


# HOW TO GET THE BEST OF A PLANT ?





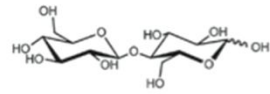
# ENZYMES: A KEY FOR BIOREFINERY



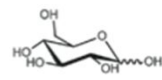
Cellulose



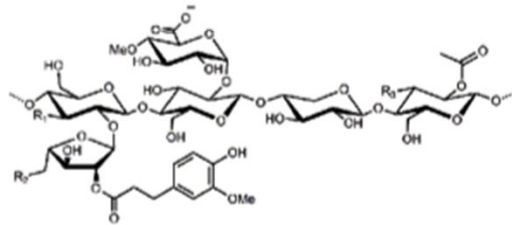
Cellulases



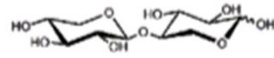
Cellobiose



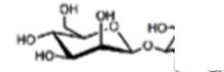
Glucose



Xylan

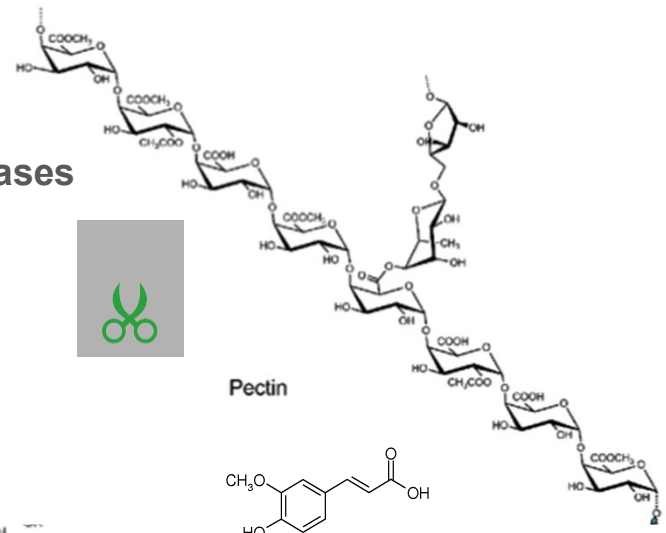


Xylobiose

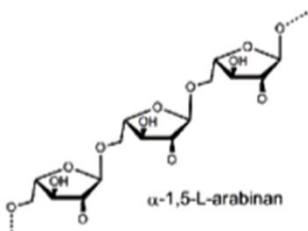


Mannobiose

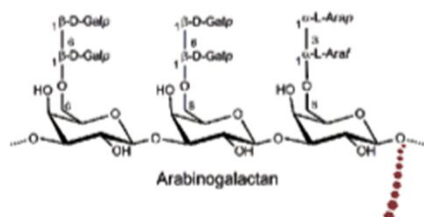
Pectinases



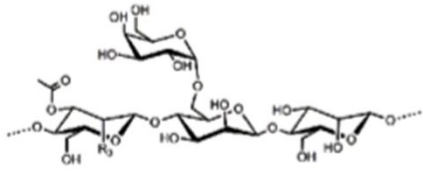
Pectin



$\alpha$ -1,5-L-arabinan



Arabinogalactan



Galacto-glucomannan



Phenolic acids locks

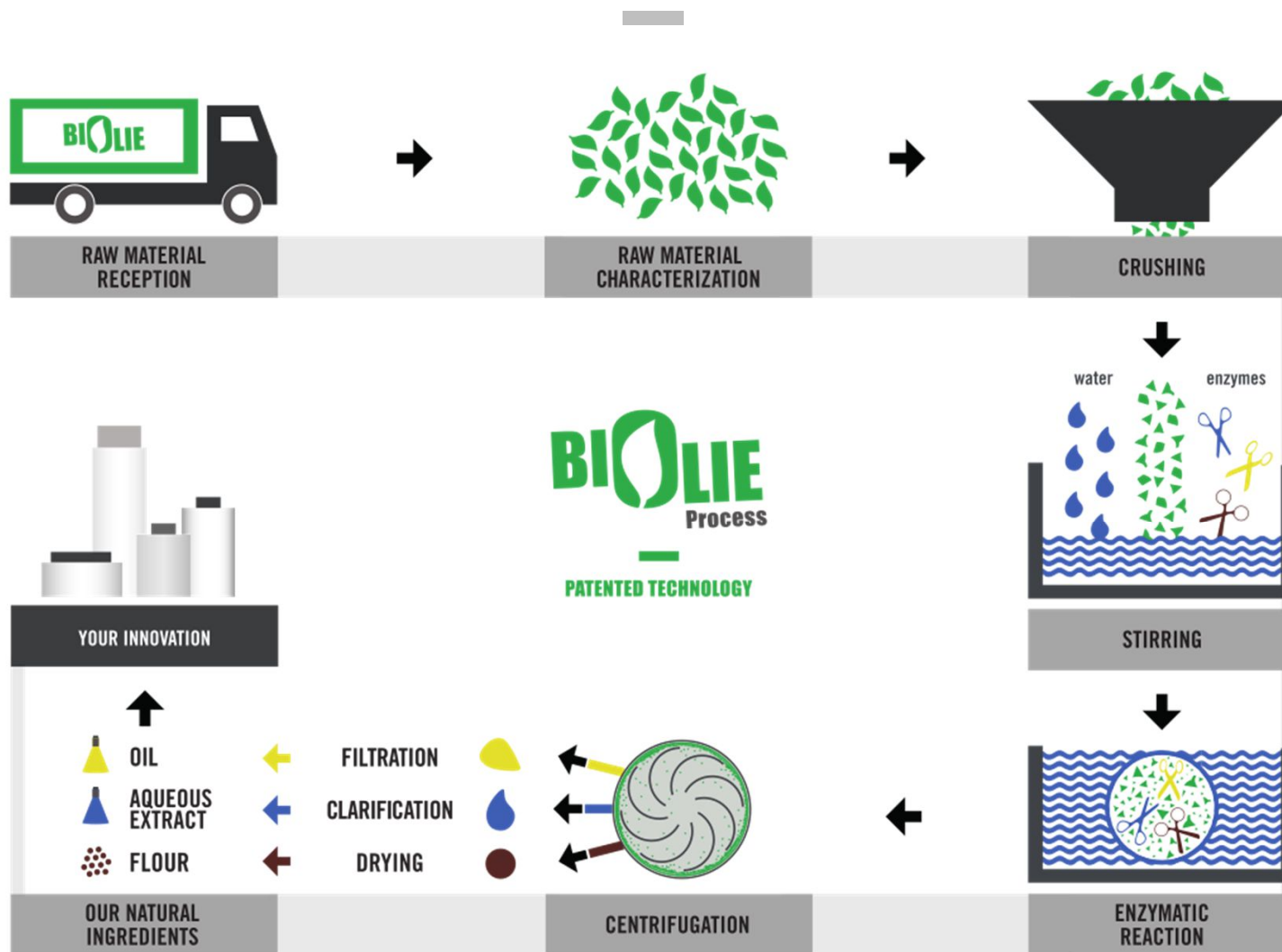
Hemicellulases



Proteases



# OUR TECHNOLOGY





# THE BIOREFINERY CONCEPT



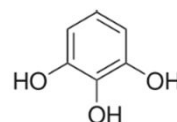
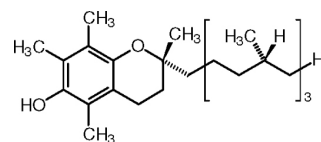
**OILY  
PHASE**

**AQUEOUS  
EXTRACT**

**FLOUR**



**Tocopherols  
Sterols  
Apolar compounds**



**Polyphenols  
Fermentescible sugars  
Oligosaccharides  
Hydrosoluble proteins...**

**Polyphenols  
Oligosaccharides  
Proteins  
Fibers  
...**





## ADVANTAGES OF OUR TECHNOLOGY

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**Sustainable technology:** solvent-free and organic compound-free  
→ Possibility to get certifications: **ORGANIC, COSMOS...**

« **Biomimicry** »: technology inspired by nature and worldwide patented

**Biorefinery:** the only technology that produces **several natural ingredients** through a one-step extraction: a vegetable oil, an aqueous extract and a solid fraction.

**Specificity of the extraction:** naturally enriched oils and innovative and differentiating aqueous extracts with **enhanced efficiency.**

**China list and Plants Decree**





# THANK YOU FOR YOUR ATTENTION

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