

# Scientific Innovation in the French Clean Beauty



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ORLÉANS  
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# Cosmetics rely on scientific innovation

Cosmetics now makes extensive use of science and involves in particular chemists, physicists and biologists, but also sociologists, etc.... In the all-natural and all-safe era, cosmetics must be a perpetual territory of scientific innovation and always be more effective, while guaranteeing safety for the user and minimizing their environmental impact.

- > no benefit/risk concept
- > no animal testing allowed
- > no animal products (vegan)
- > no GMOs
- > effectiveness to be demonstrated
- > increase in products of natural origin vs synthetic

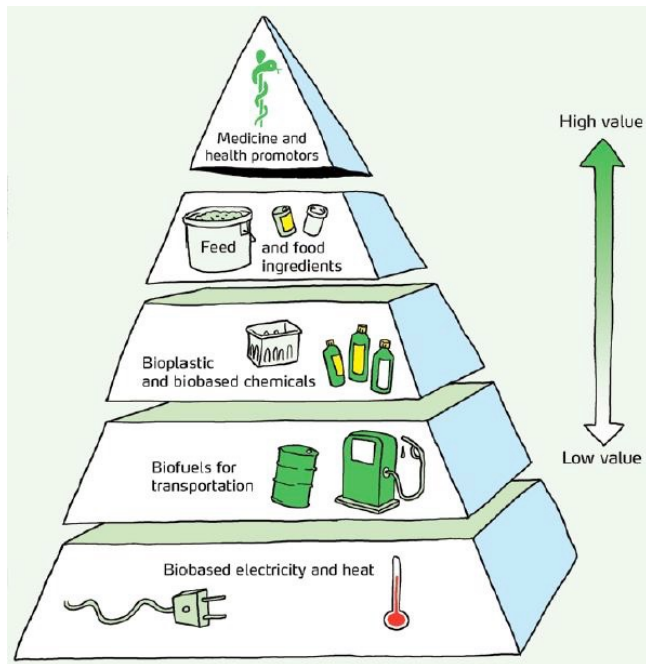


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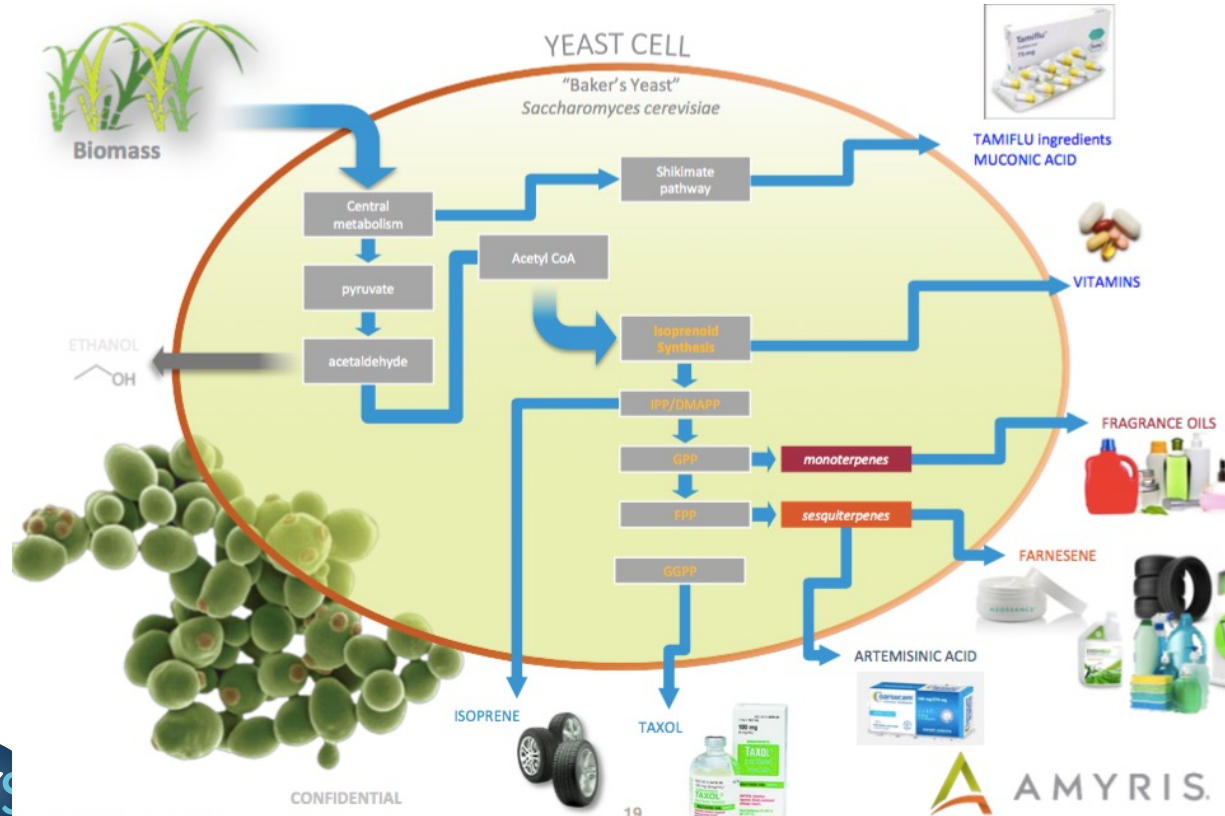
White biotechnologies allow the production of large quantities of active ingredients.



Extraction of limonene to make solvents...



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## NEXT: ALL ITEMS, BUT WITHOUT WATER?

Skin Signal (KR – launched in Oct. 2018)

4 different products initially (Cream / Serum / Oil / Stick balm) that are water-less containing (all the good, active and organic ingredients more than 95%)



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Mayonnaise success or failure???



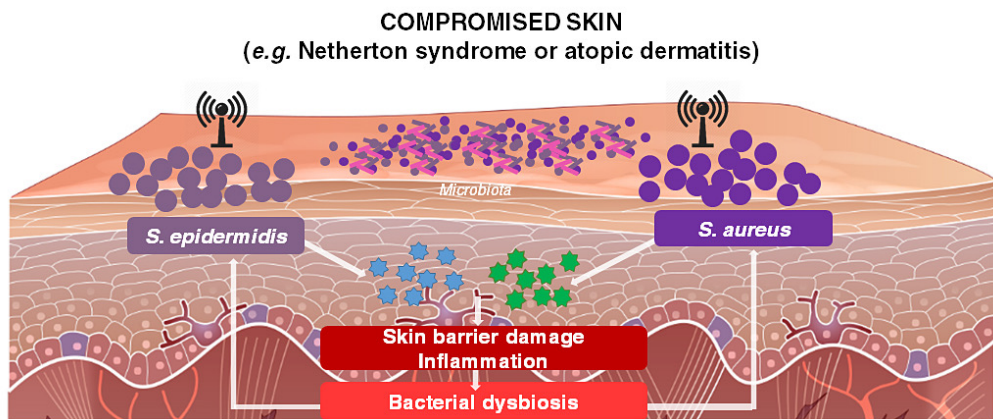
Mango mousse

(dispersion of nitrous oxide bubbles in a mango coulis with added gelatin)



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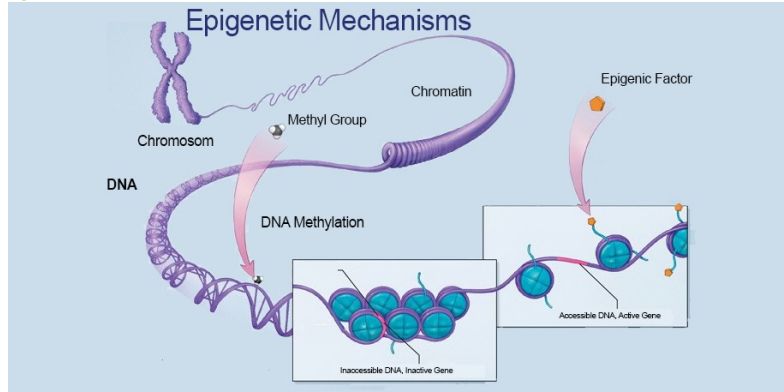
The cutaneous microbiota allows the generation of a customizable cosmetic, or the cosmetic allows to favor one species / to another.





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## Cosmetic & Epigenetic



- **EPIGENOMYL®** is a patented anti-age active ingredient that limits modifications of the epigenome caused by external aggressions and age;
- **WHITONYL®** is a patented depigmenting active ingredient that revitalizes the epigenome of melanocytes in a context of cutaneous photo-aging;
- **HAIRGENYL®** is a patented anti-hair loss active ingredient that targets the epigenetic components in hair regrowth.





# Chair of Cosmetology AgroParisTech Orléans



# Chair of Cosmetology AgroParisTech Orléans

## ► Teaching

- Cosm'ethics
- 25 Engineers / year
- corporate social responsibility (CSR)



## ► Laboratories

- Skin biology
- Sensory Analysis
- Process Engineering
- Physico-chemistry
- Microbiology - biochemistry
- Analytical Chemistry



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