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# Health benefits of innovated *Curcuma longa* extract

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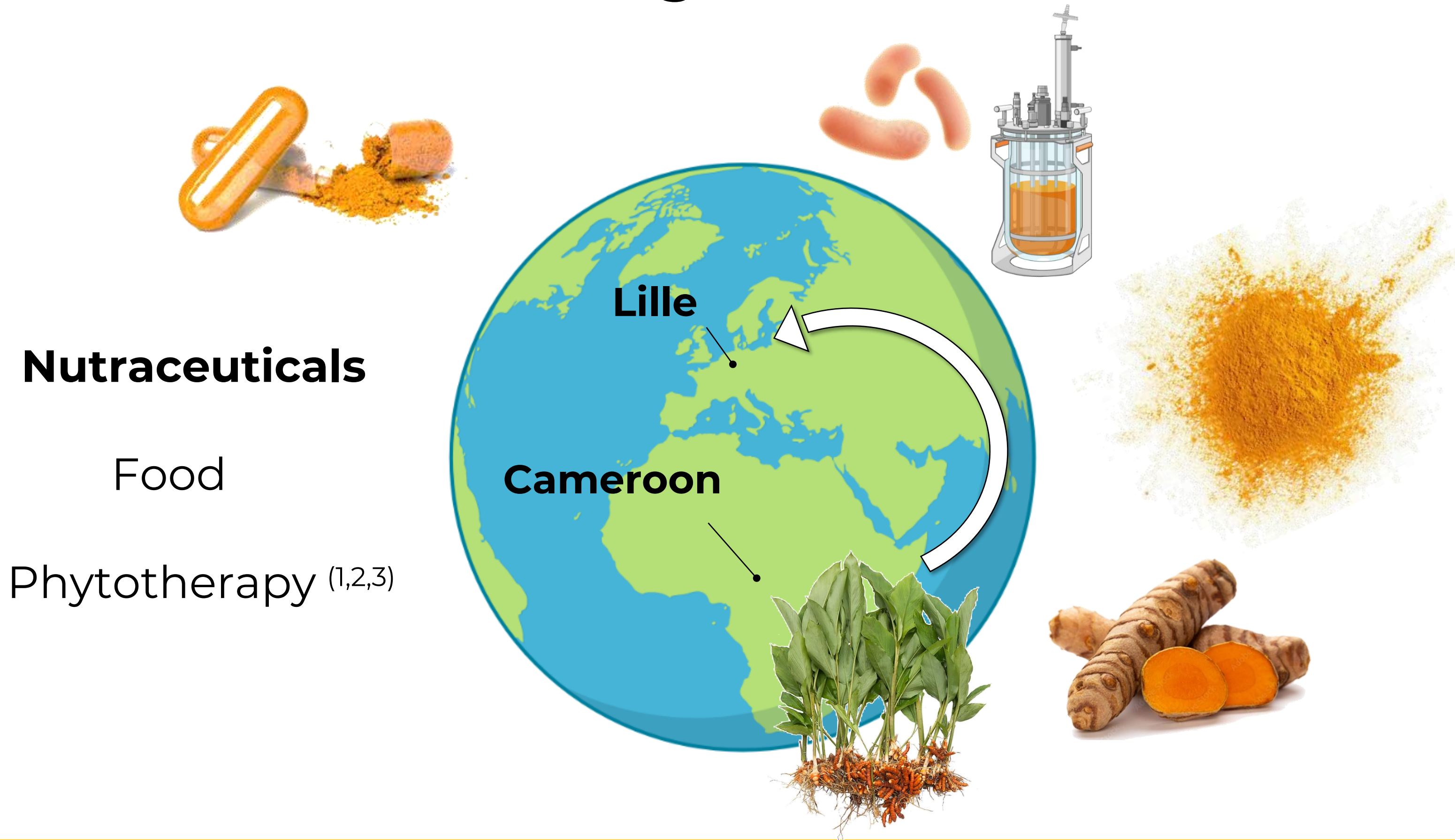
## Objective

Anti-inflammatory innovative turmeric extracts

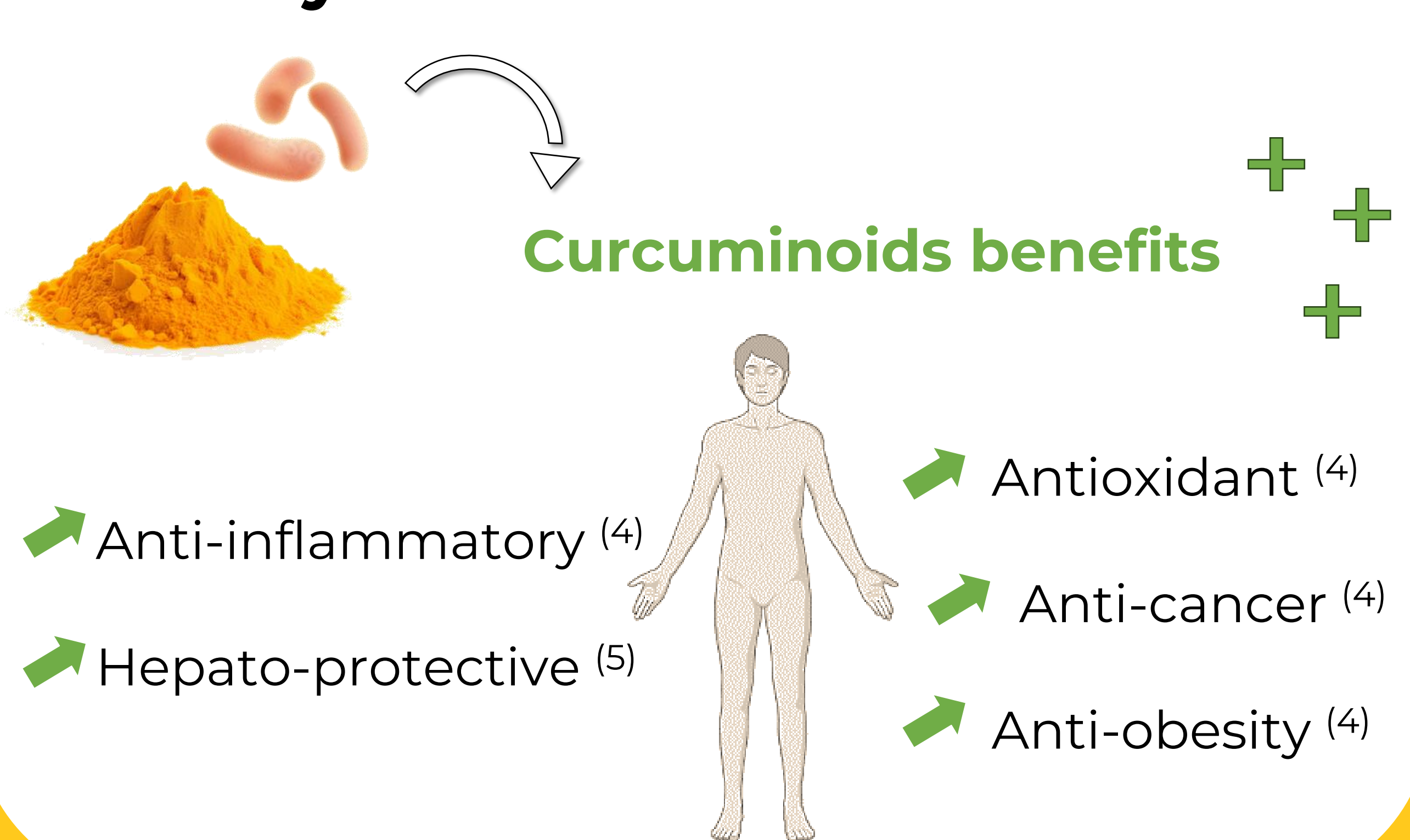
## How ? → Biotransformation

No solvent, adjuvant, physical-chemical processing

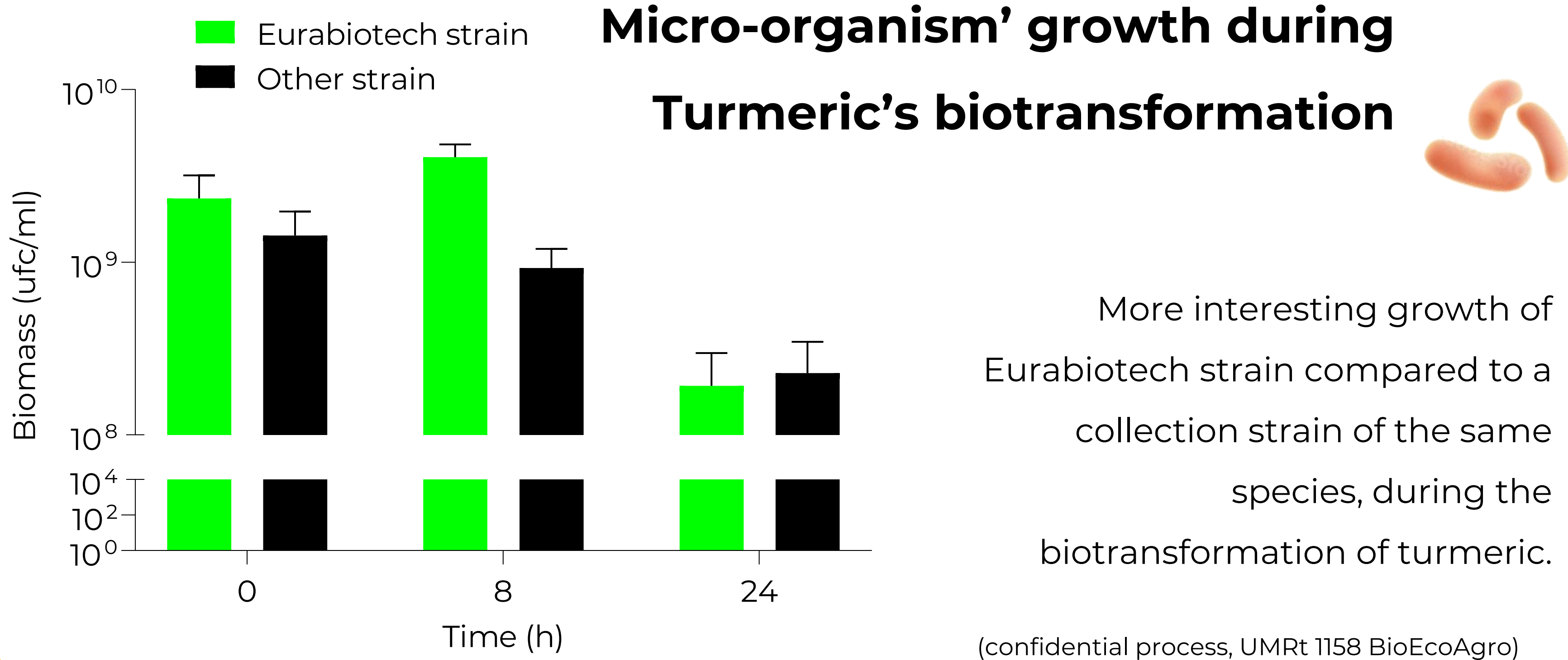
## Curcuma longa transformation



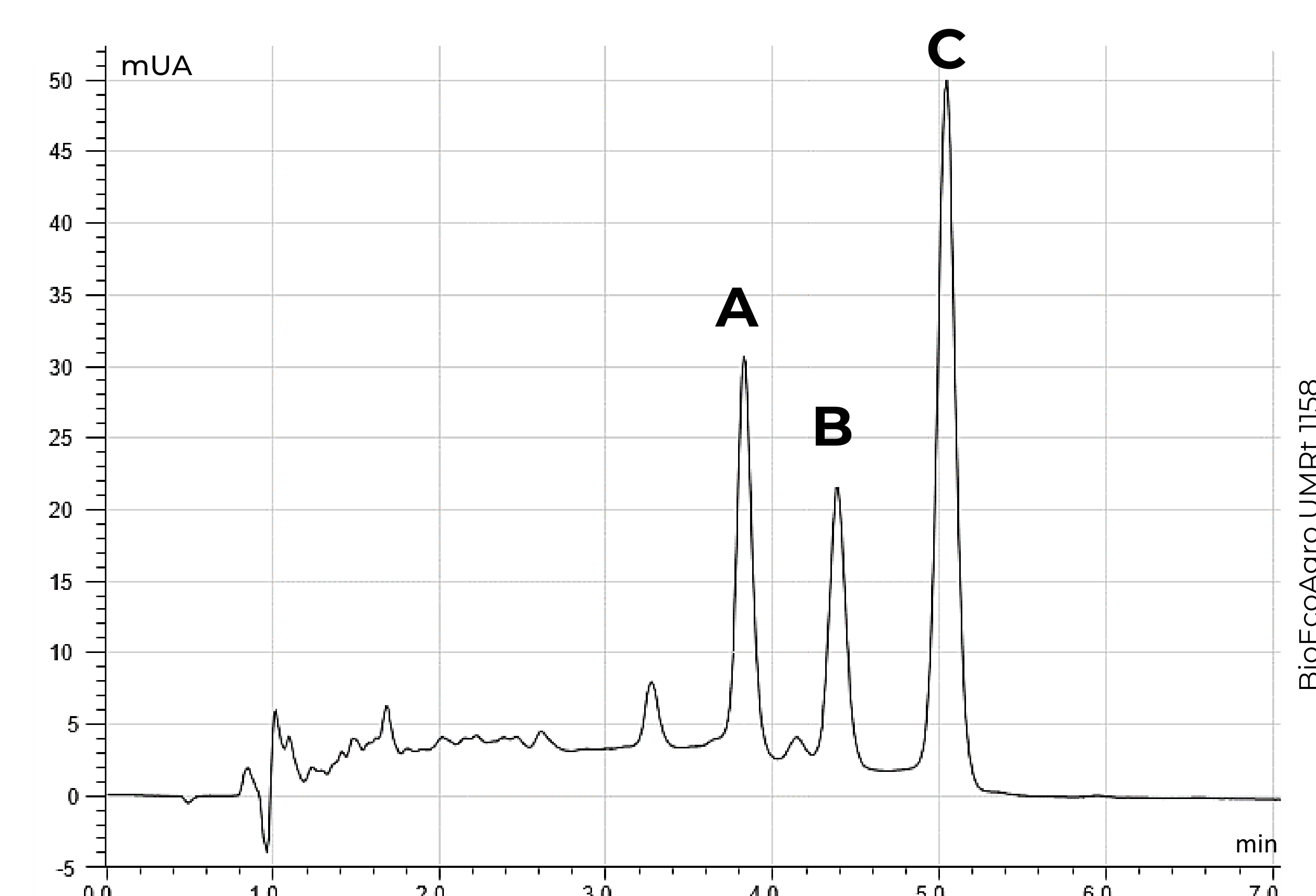
## Why biotransform turmeric ?



## Micro-organism' growth during Turmeric's biotransformation



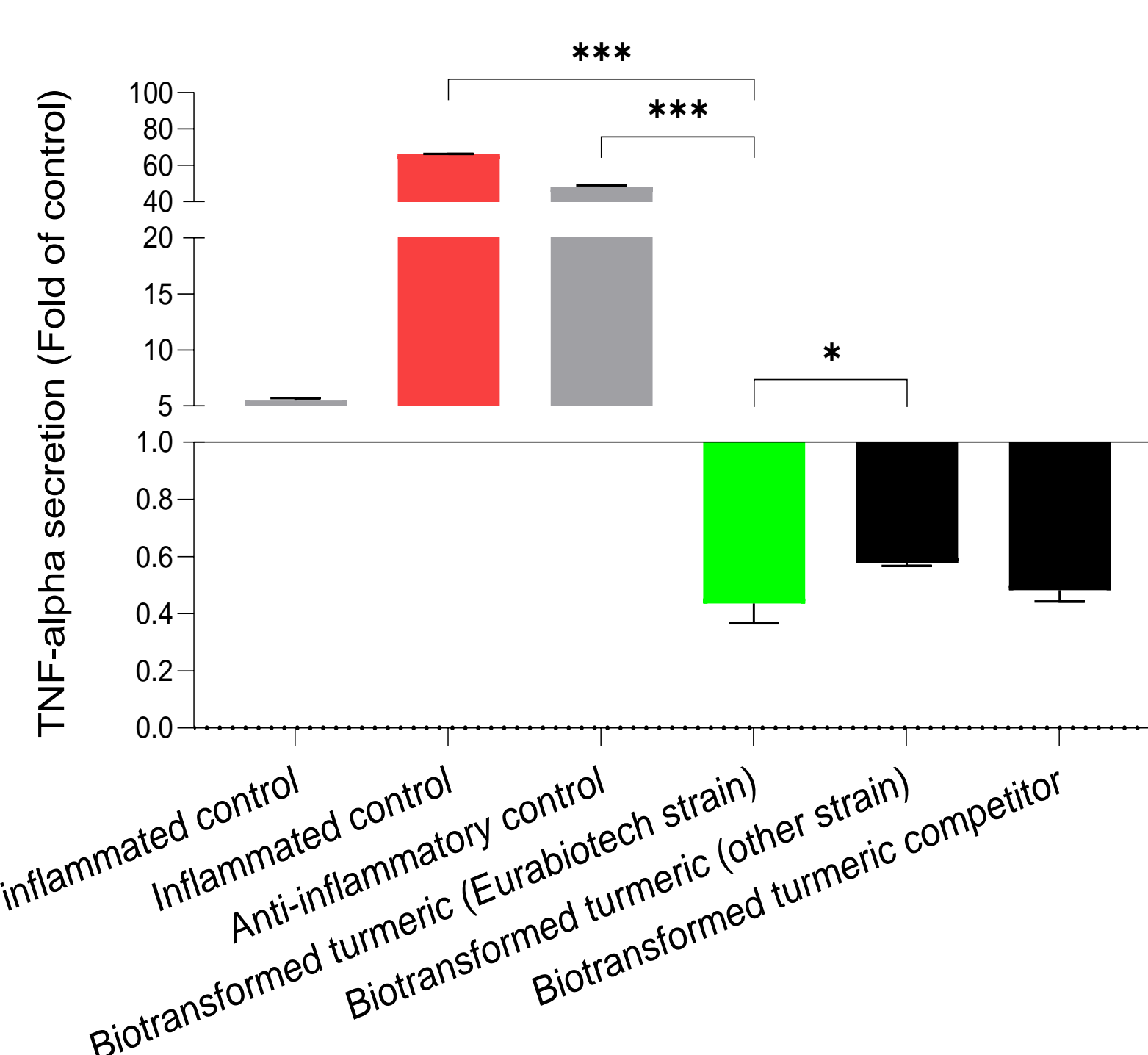
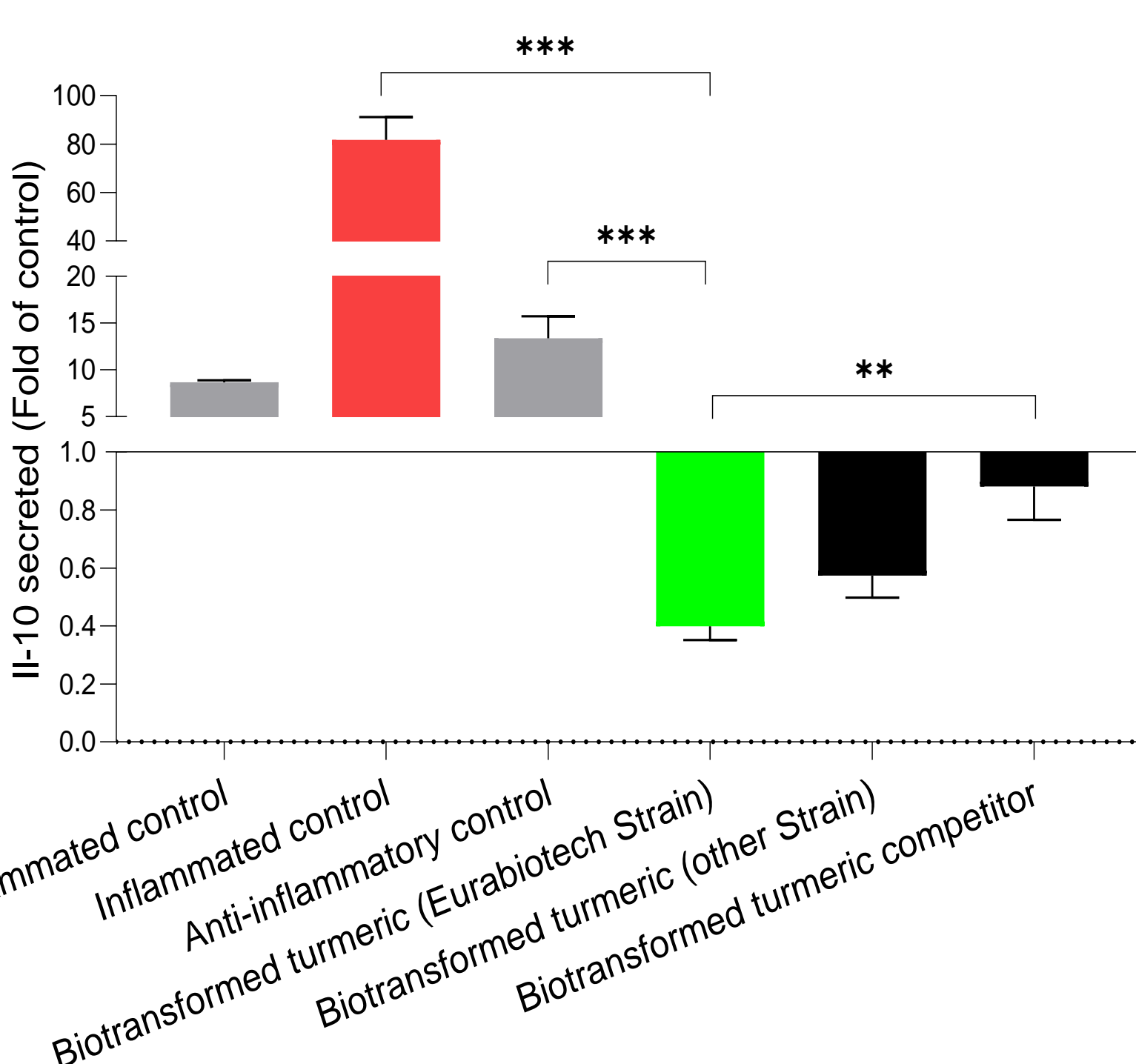
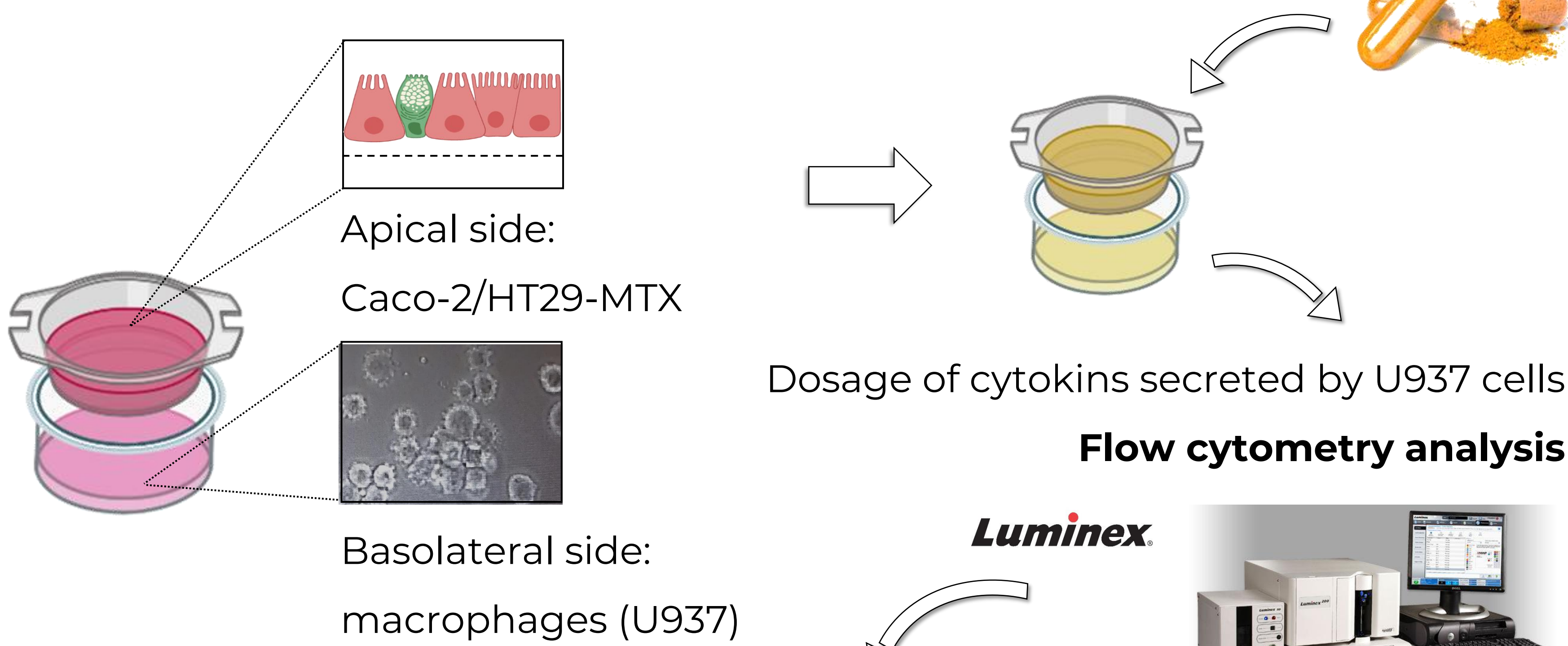
## Bioactive compounds of turmeric



### Turmeric powder's major curcuminoids

Turmeric powder (1 g/l, MeOH), High performance liquid chromatography (PFP column, UV detector, 420 nm)  
BMC : Bis-demethoxycurcumin,  
DMC : demethoxycurcumin

## Inflammatory model of study : Intestinal cell barrier



## Anti-inflammatory activity of biotransformed turmeric

Non biotransformed turmeric (FC=1) v.s. different biotransformed turmeric. The Eurabiotech biotransformed turmeric shows a lower secretion of two pro-inflammatory biomarkers : IL-10 and TNF-alpha compared to turmeric biotransformed by another strain and compared to a competitor. (Tukey test, p<0,02)

## Conclusion

Safety  
Anti-inflammatory  
Bowel diseases  
Naturality

EURABIOTECH