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Health benefits of innovated *Curcuma longa* extract

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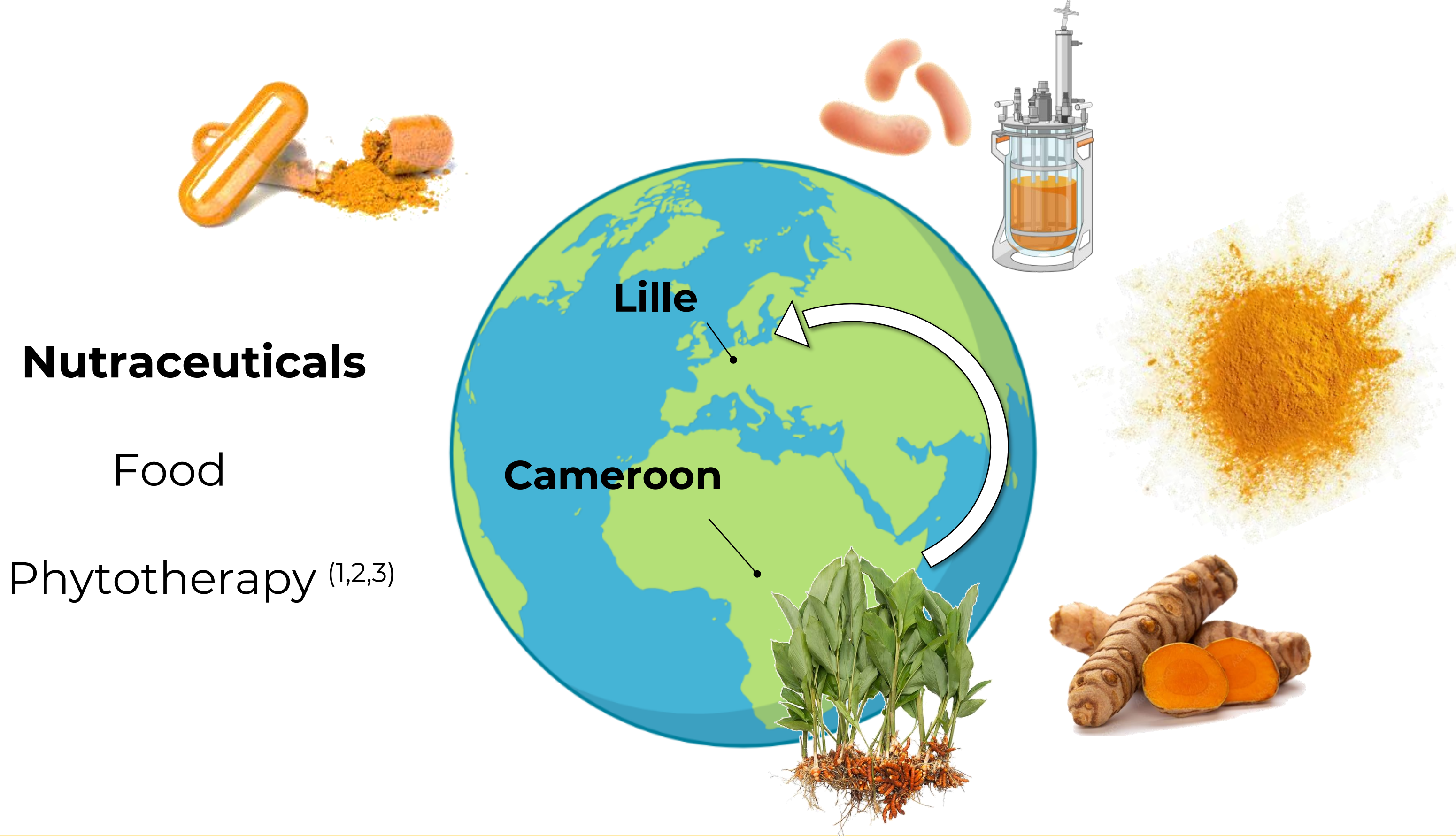
Objective

Anti-inflammatory innovative turmeric extracts

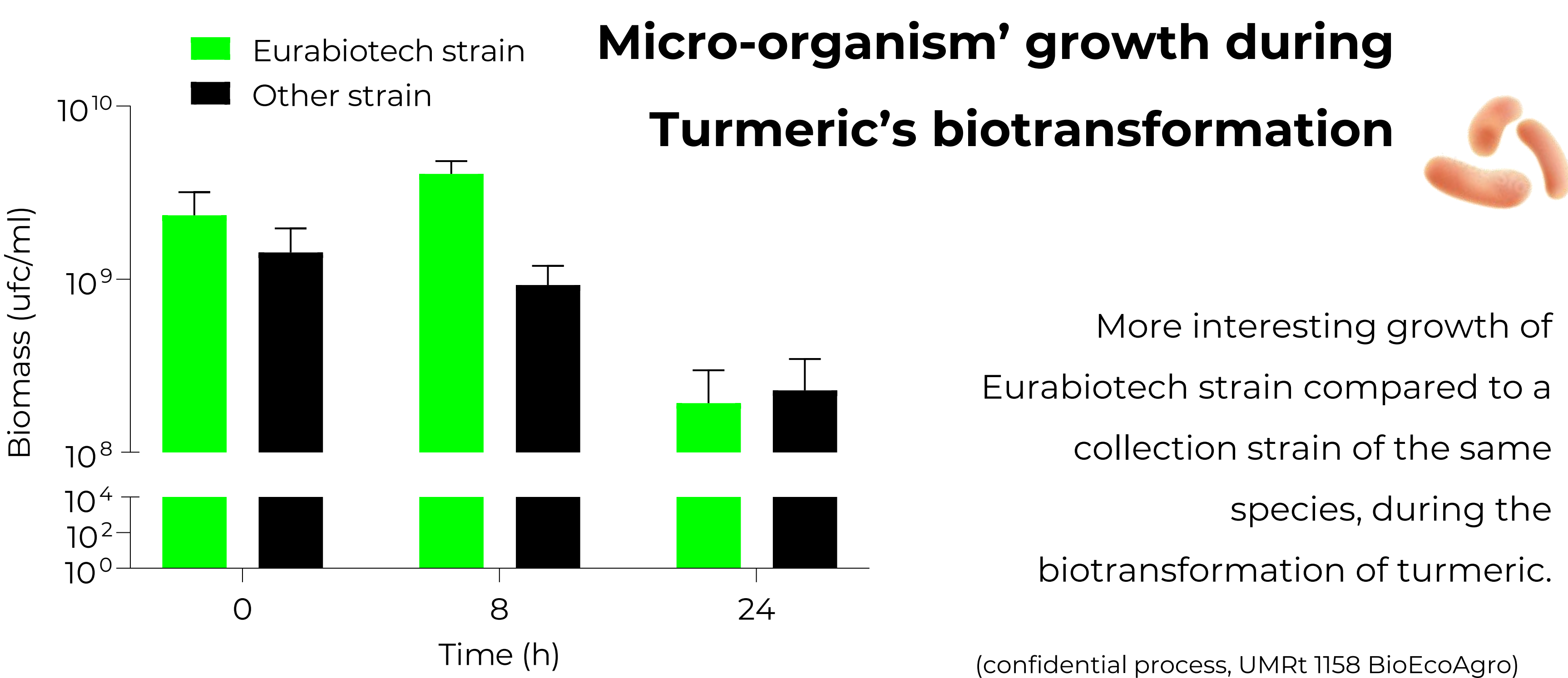
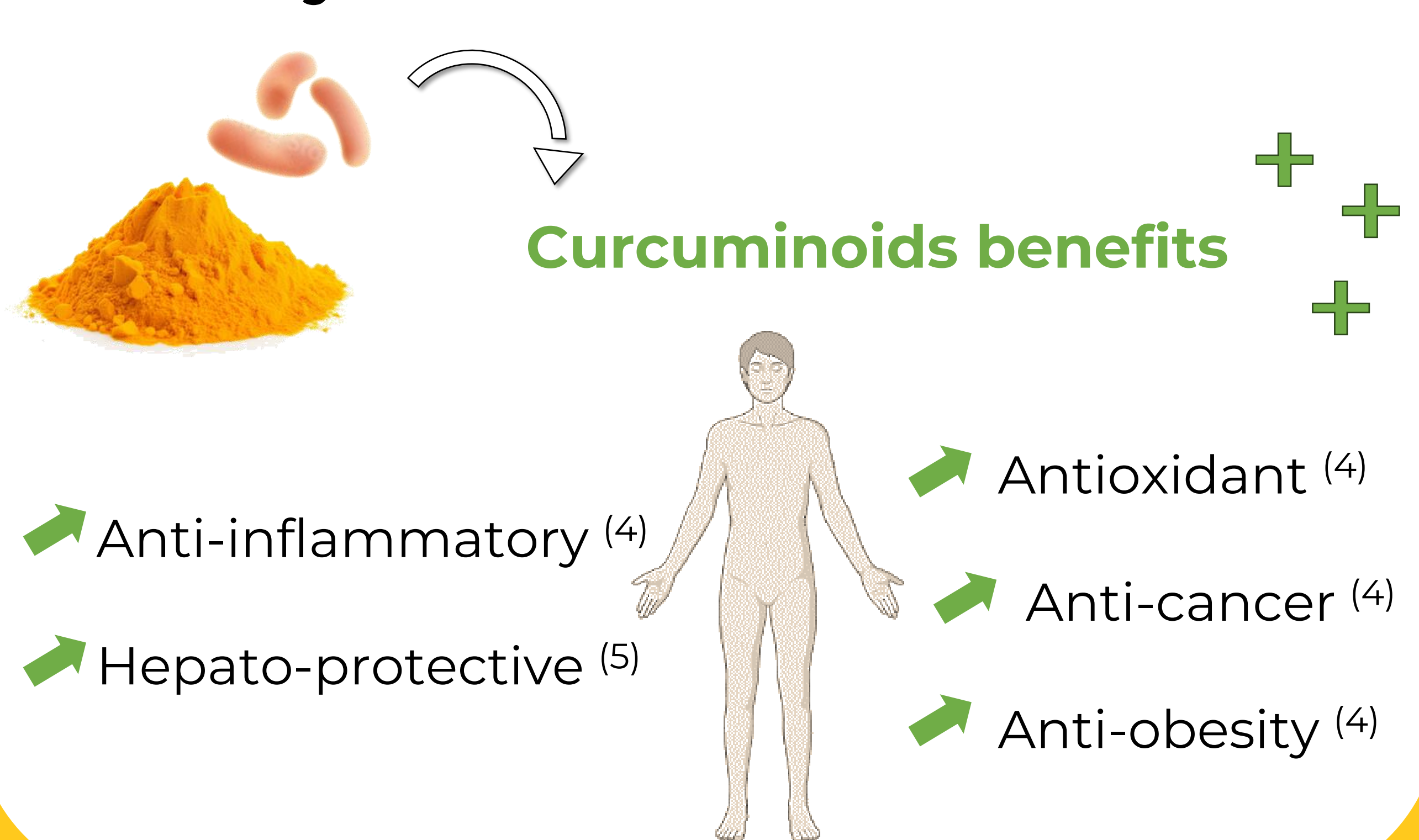
How ? → Biotransformation

No solvent, adjuvant, physical-chemical processing

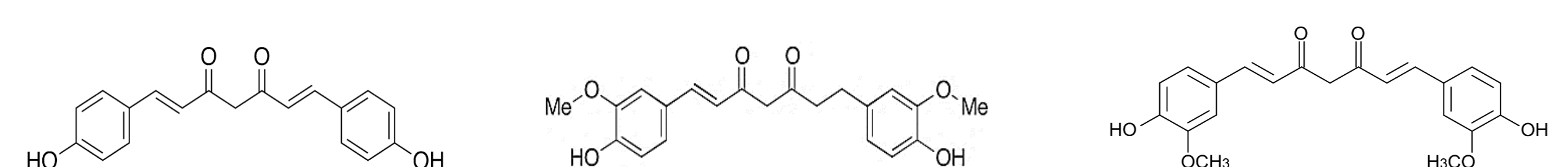
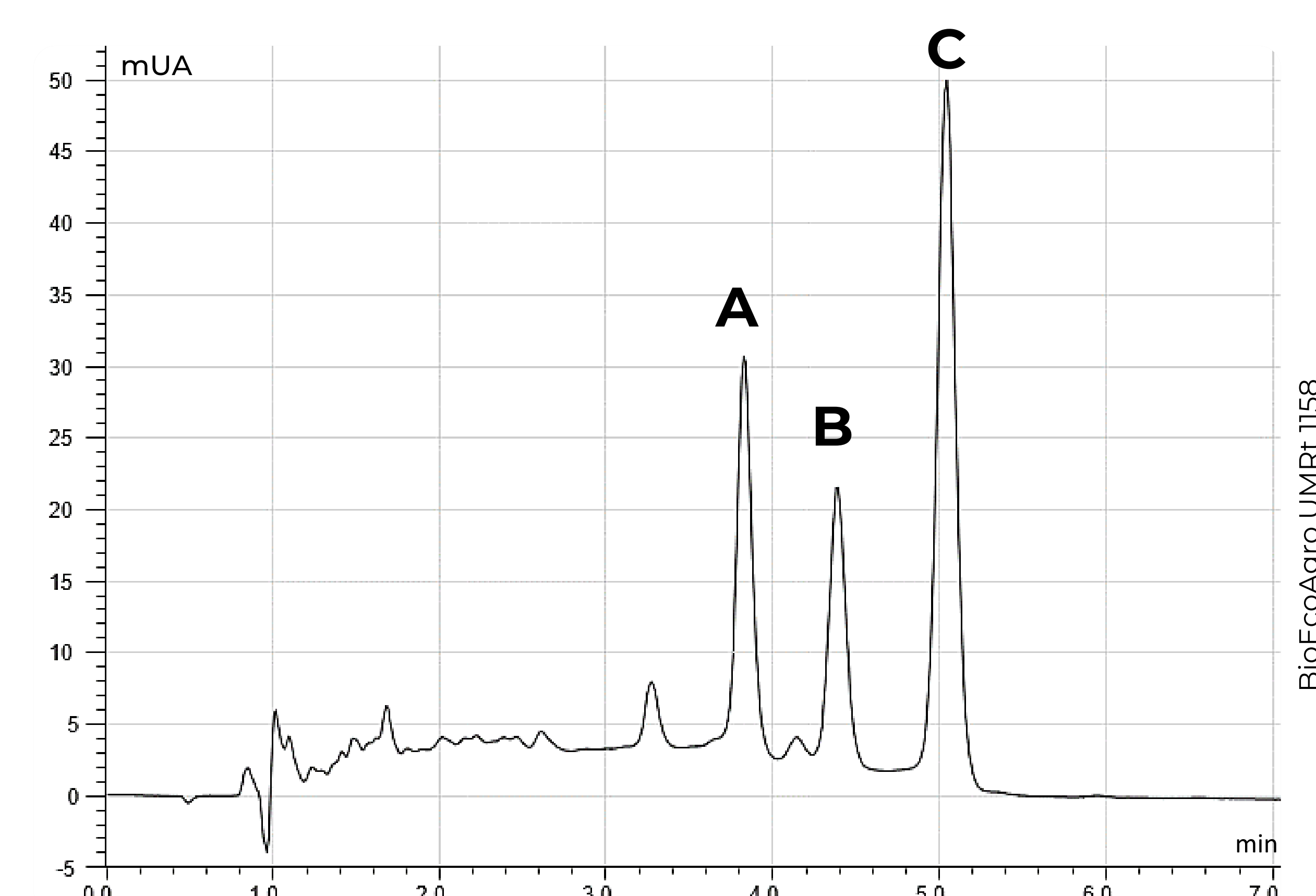
Curcuma longa transformation



Why biotransform turmeric ?



Bioactive compounds of turmeric

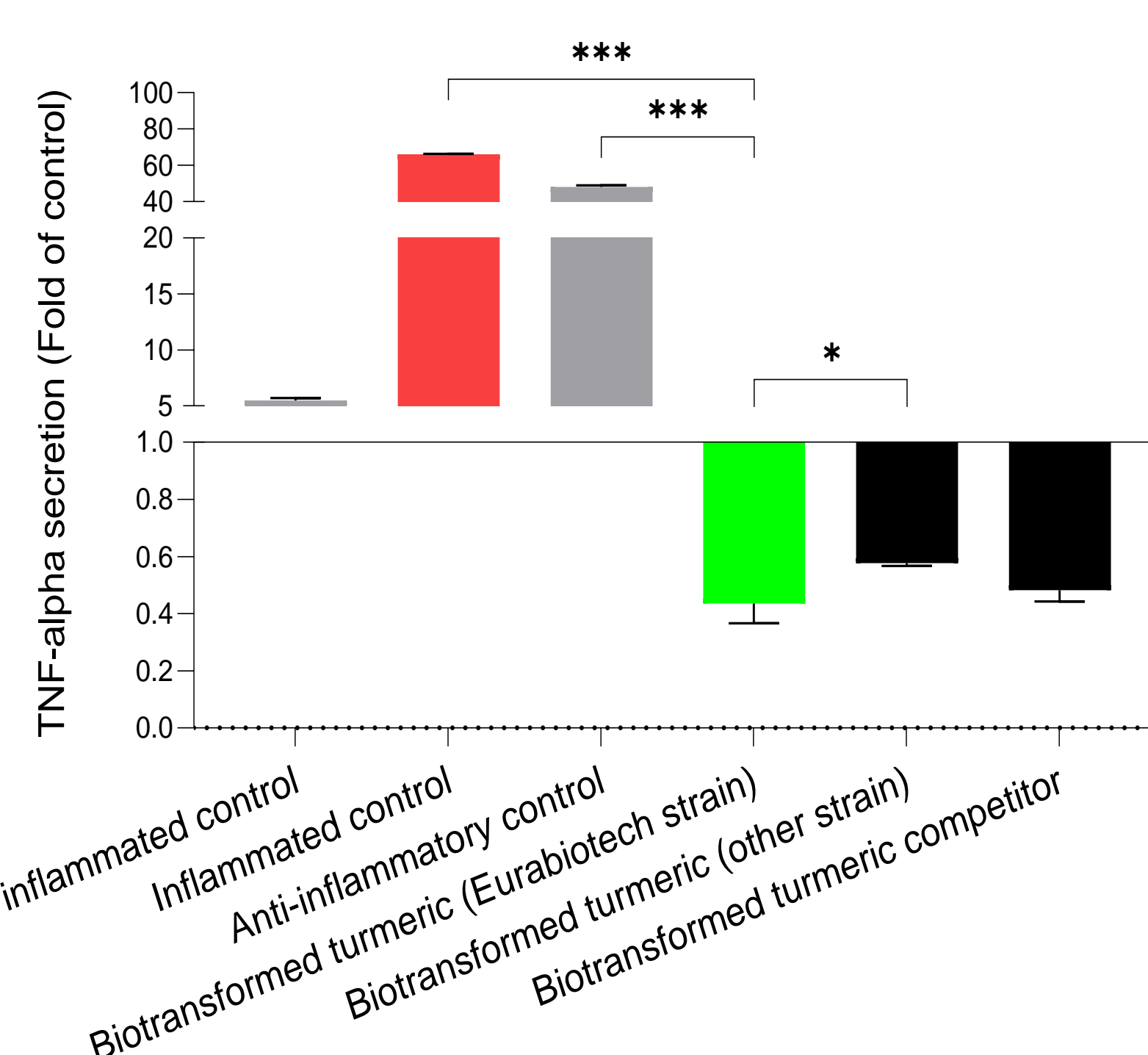
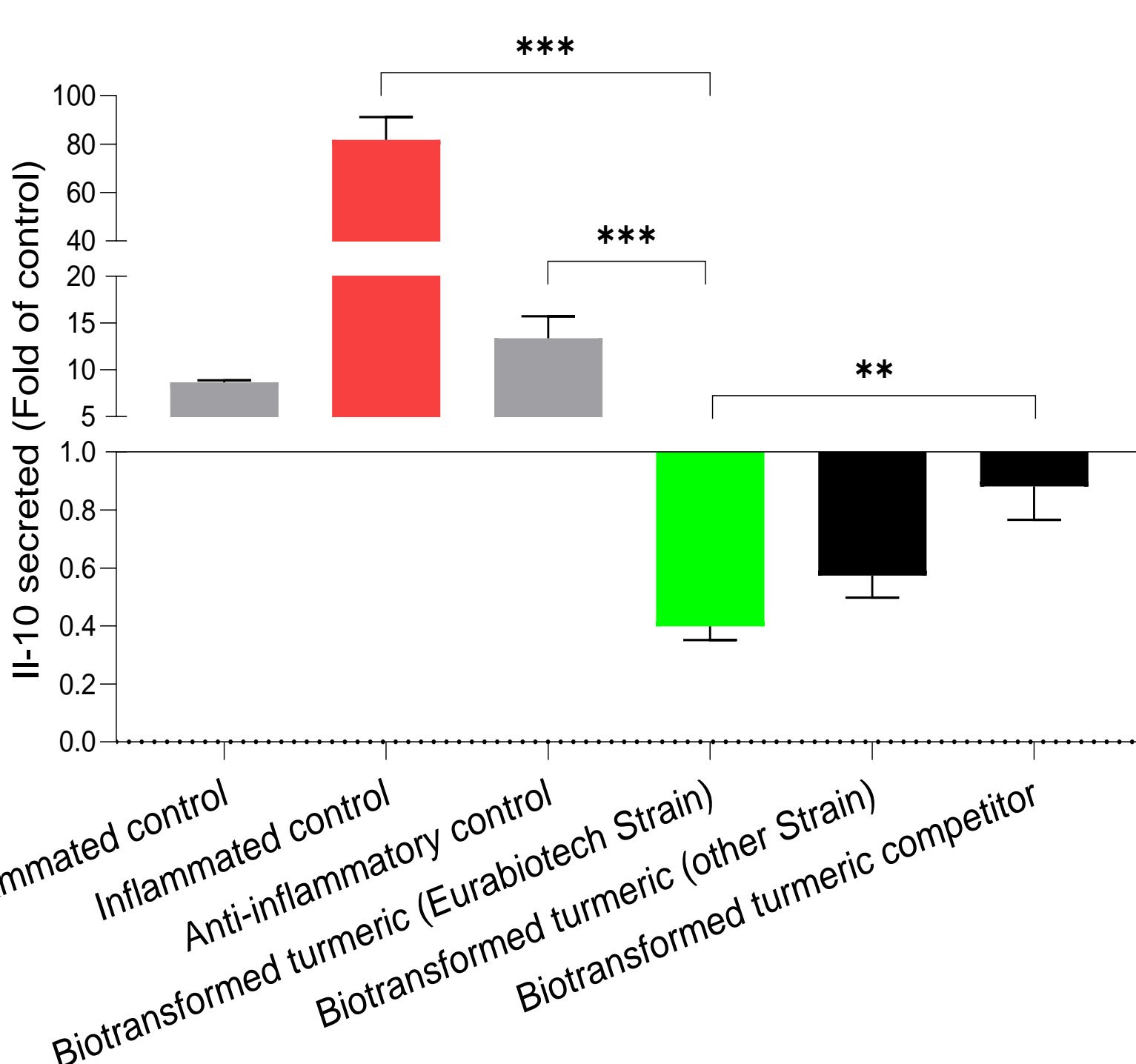
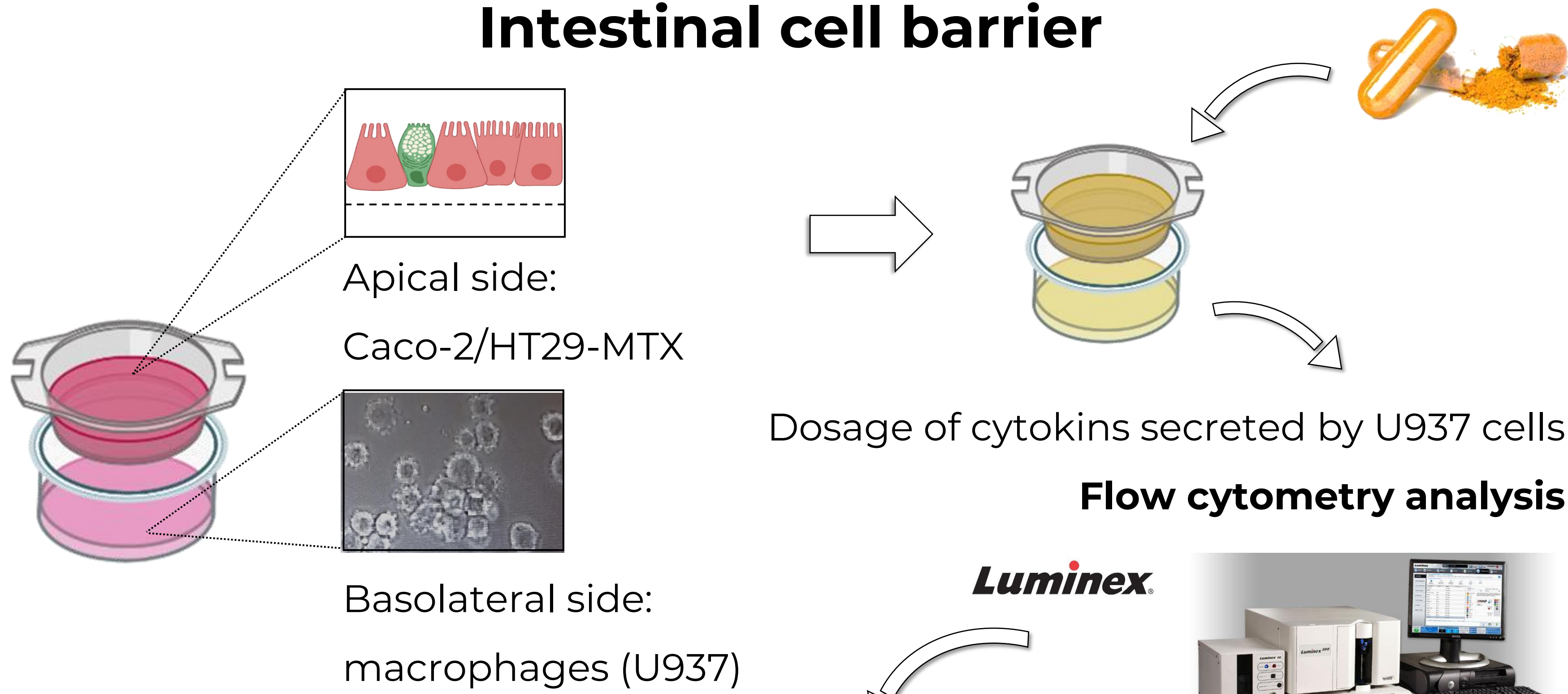


(A) BMC (B) DMC (C) Curcumin

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

