

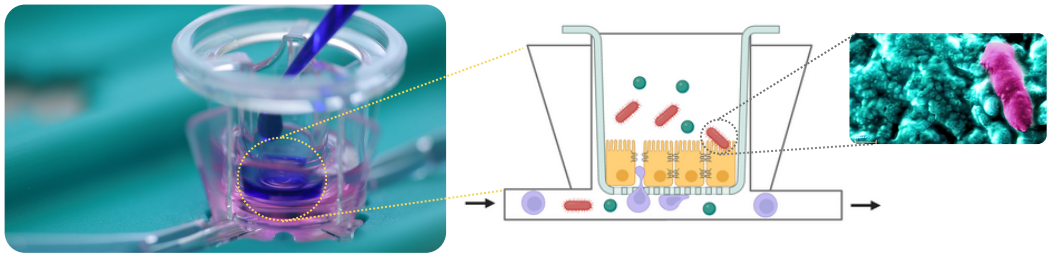
# REACT4LIFE

mirroring human complexity

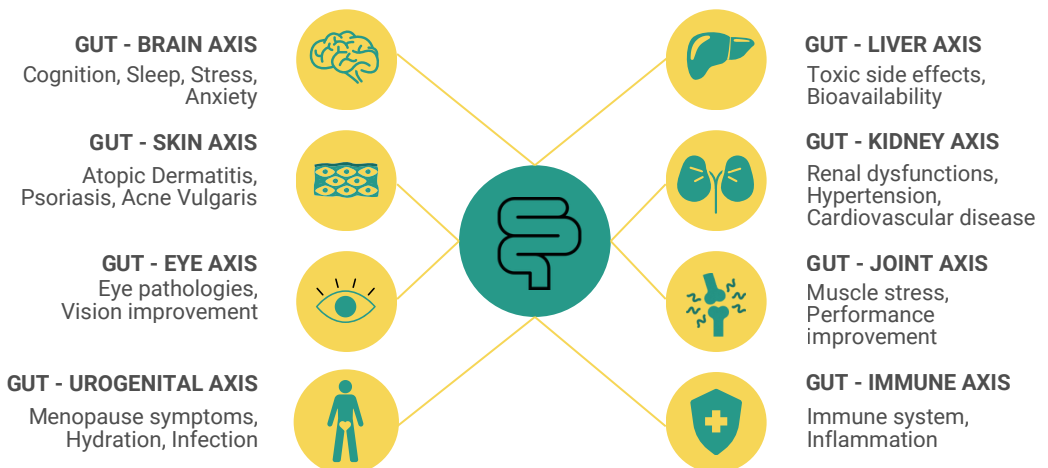
## GUT-ORGAN AXIS ON CHIP

Scientific evidence increasingly supports the intricate interplay between the human gut microbiome and extraintestinal organ functions, establishing connections between dysbiosis and acute and chronic diseases. Advanced in vitro models such as **MIVO organ<sup>®</sup>-on-chip faithfully recapitulate in vivo conditions, providing a robust platform for the development of effective products.**

To (re)balance a disturbed gut microbiome, personalizing microbiome modulators, including probiotics, prebiotics, or postbiotics, play a crucial role. Additionally, the growing consumer demand for personalized nutritional solutions highlights the urgent need for effective evidence-based products: **a scientifically validated approach for pursuing good health at every stage of life.**



### SUPPORT YOUR CLAIMS WITH SCIENCE



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## BENEFITS



### Cost-Efficient & Time-Saving:

Optimize your R&D resources and save time with our cost-effective approach.



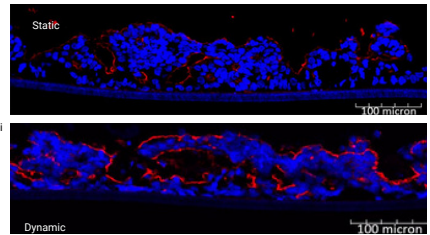
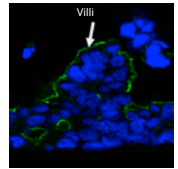
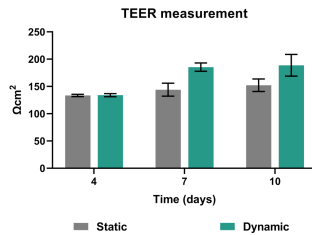
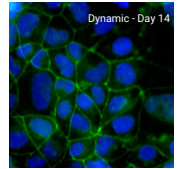
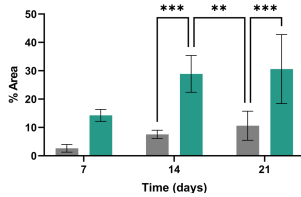
### Consistent Experimental Reproducibility:

Ensure better tissue homeostasis and reliability with reproducible outcomes.



### Reliable and Predictable Results:

Achieve consistent, time-saving outcomes, enhancing formulation efficacy and permeation.



## REFERENCES



**Marrella A et al, *Altx* 2020**

*In vitro* demonstration of intestinal absorption mechanisms of different sugars using 3D organotypic tissues in a fluidic device



**Fedi A et al, *Journal of Controlled Release* 2021**

*In vitro* models replicating the human intestinal epithelium for absorption and metabolism studies: A systematic review



**Pulsoni I et al, *SLAS Technology*, 2022**

Comparison Between Franz Diffusion Cell and MIVO, a novel Micro-physiological System for *In Vitro* Penetration Assay Using Different Skin Models



European Commission