

REACT4LIFE

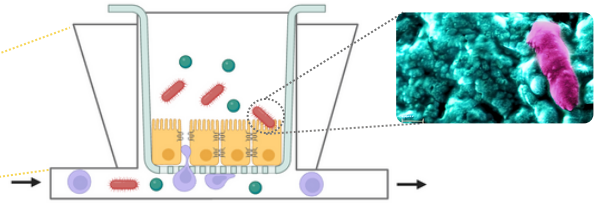
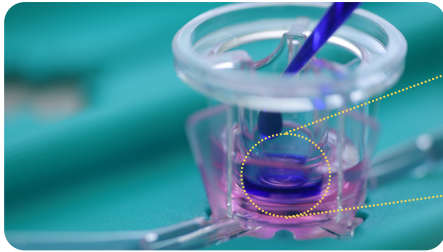
mirroring human complexity



GUT ON CHIP

A reliable human-relevant model to test the bioavailability and efficacy of testing compounds. Compared to traditional in vitro tests, our MIVO[®]-based Gut on Chip more faithfully reproduces the physiological conditions, allowing for more accurate pre-screening of molecules, active ingredients permeation, and microbioma studies.

Improve the design of your formulations in a controlled environment with a cost-effective and time-saving reproducible model.



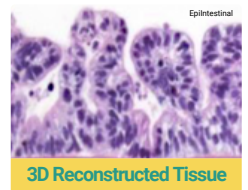
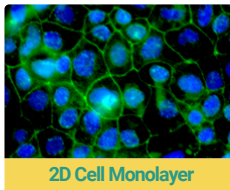
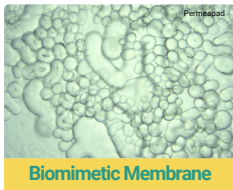
APPLICATIONS

- ADME STUDIES
- NUTRIENTS UPTAKE
- MICROBIOME RESEARCH
- LEAKY GUT ASSAY
- MOLECULE SCREENING
- BIOAVAILABILITY
- INFLAMMATION - IBD
- GUT-BRAIN / GUT-SKIN ASSAY

POSSIBLE READOUTS

- CYTOTOXICITY
- KINETIC OF PERMEATION
- COMPLETE DIGESTION-METABOLISM
- TEER MEASUREMENTS
- CYTOKINE RELEASE
- IMMUNE CELLS INFILTRATION
- BACTERIA ADHESION
- MOLECULE BIOAVAILABILITY

GUT TISSUE MODELS COMPATIBILITY



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FEATURES



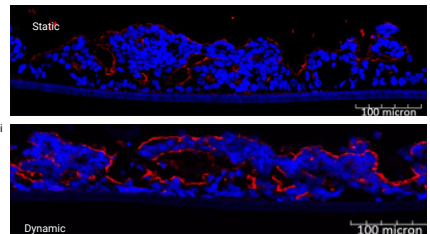
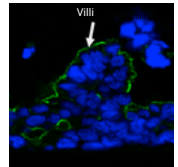
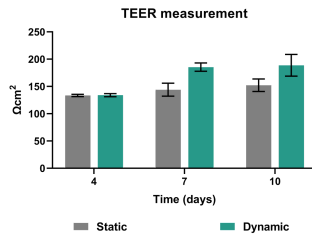
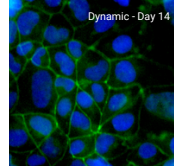
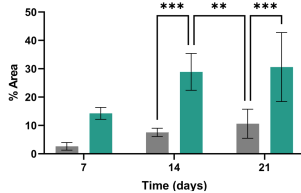
Cost-Efficient & Time-Saving:
Optimize your R&D resources and save time with our cost-effective approach.



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, Altex 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

