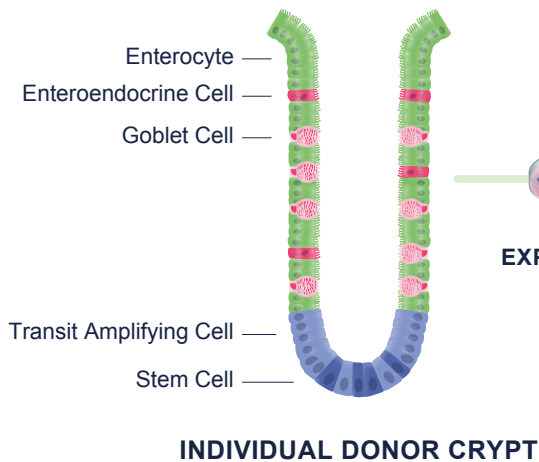


RepliGut[®] Model Systems

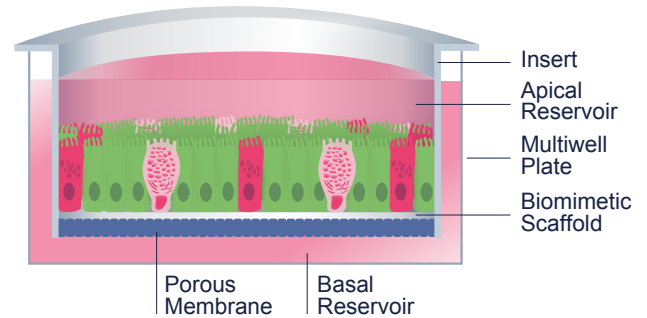
Model inflammation response, toxicity, and barrier function that results in physiologically relevant human data for greater confidence in decision making earlier in drug discovery

HOW WE DO IT



EXPANSION

FROZEN
BIOBANK



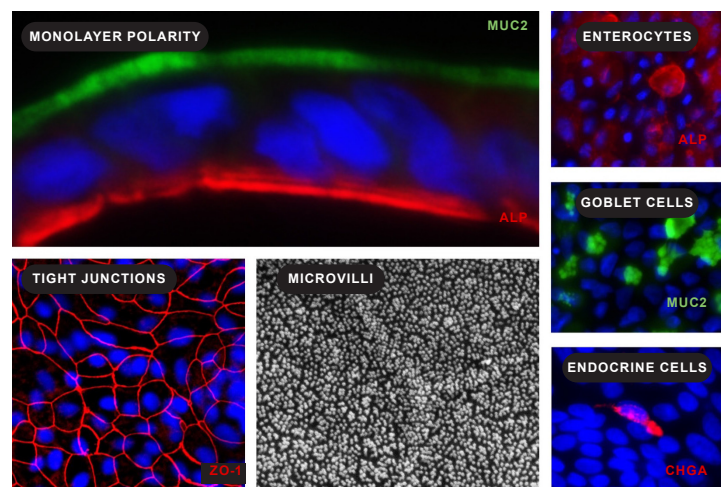
HIGH TEER MONOLAYER OF MATURE INTESTINAL EPITHELIAL CELLS

TRANSWELL CROSS-SECTION

FEATURES

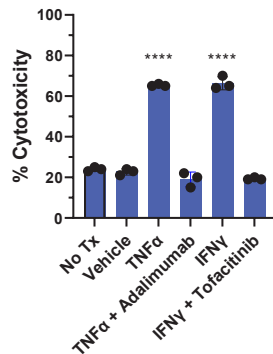
- ✓ High-throughput 96-well format
- ✓ Key cell types of the gut epithelium represented
- ✓ Accessible apical and basal reservoirs
- ✓ Models for multiple intestinal regions available

Immunostaining and electron micrographs of RepliGut[®] Systems showing monolayer polarity, tight junctions, functional cell types, and presence of microvilli. Microvilli image courtesy of Dr Yuli Wang, University of Washington.

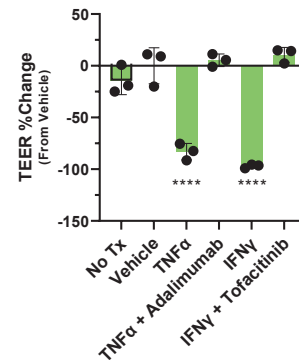


SAMPLE DATA

CYTOTOXICITY



BARRIER INTEGRITY



Anti-inflammatory therapeutics block TNF α - and IFN γ -induced barrier loss and cytotoxicity.

DIVERSE BIOBANK

An ethically sourced biobank consisting of multiple intestinal regions from multiple donors enables both cross-region and cross-donor studies.

APPLICATIONS

Inflammation	Host-microbe interactions
GI Toxicity	Bioavailability
Barrier Function	

KITS AND SERVICES

Enlist Altis scientists to test your samples or use kits to set up RepliGut[®] Systems in your own lab.

SERVICES

- Barrier integrity
- Permeability
- Toxicity
- Cytokine response
- Viability
- Proliferation
- Barrier formation
- Gene and protein expression

KITS

- Region-specific stem cells
- Hydrogel coated plates
- Expansion media
- Differentiation media
- Cell disruption media
- Detailed instructions
- Technical consulting

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