

RepliGut[®] Custom Services

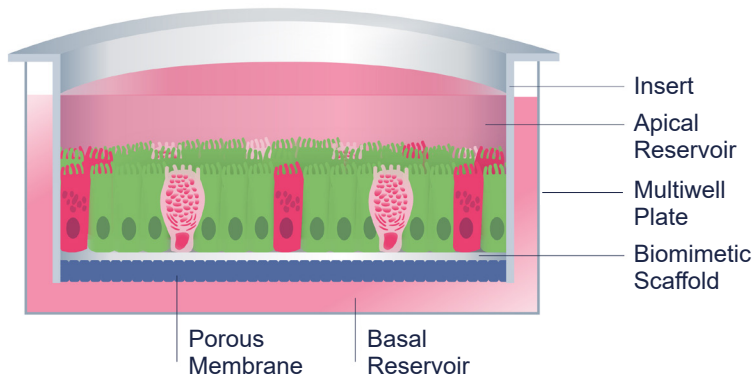
Accurate biological screening based on real human intestinal tissue

OUTCOMES TO EXPECT

- ✓ Customized project design
- ✓ Dedicated project lead
- ✓ Fast turnaround times

HOW WE DO IT

HIGH TEER MONOLAYER OF MATURE INTESTINAL EPITHELIAL CELLS TRANSWELL CROSS-SECTION



REPLIGUT[®] SYSTEMS

1. Stem cells are ethically sourced from different regions of the gut from multiple donors
2. A support matrix and media drives growth and maturation of stem cells into all key cell types
3. Supportive and consultative project lead ensure high quality results with quick turnaround times

APPLICATIONS



Explore effects of drugs in human intestine with access to both apical and basal surfaces.



Model inflammation for discovery of anti-inflammatory targets.



Study functional differences between small and large intestinal cells.

AVAILABLE READOUTS

Transport

Barrier function

Including Permeability & TEER
(Transepithelial Electrical Resistance)

Gene Expression

Via Fluidigm BioMark, Luminex
Quantigene coming soon

Protein Quantification

Via ELISA & Luminex

Immunocytochemistry

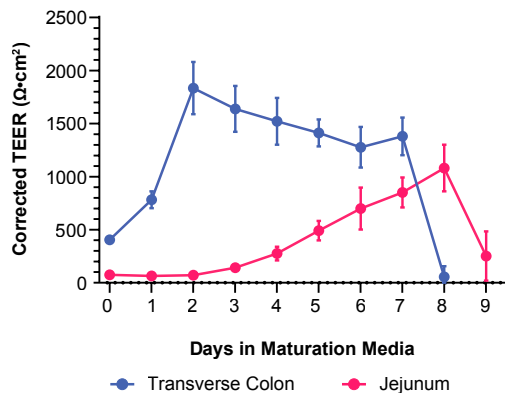
Qualitative high-throughput imaging and cell proliferation data

Cellular cytotoxicity

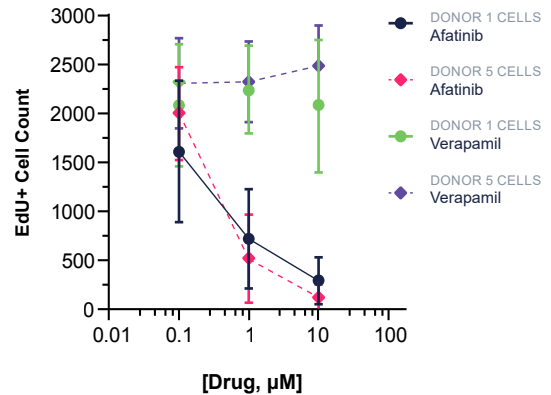
Via lactate dehydrogenase release and metabolic assays

SAMPLE DATA

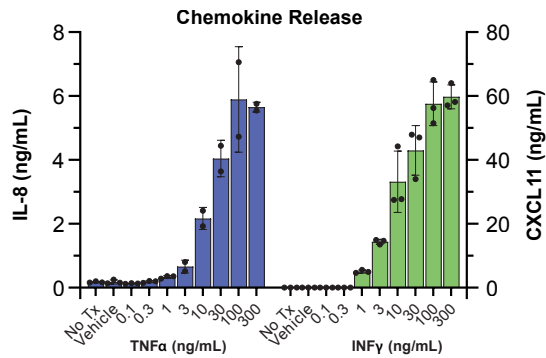
INTESTINAL BARRIER FUNCTION



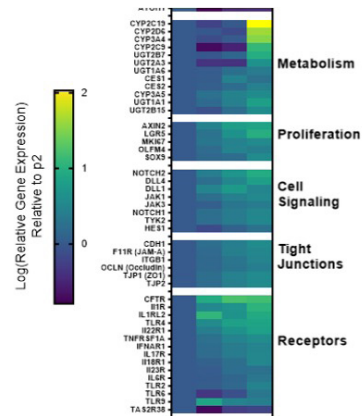
GI TOXICITY



INFLAMMATORY RESPONSE



GENE AND PROTEIN EXPRESSION



BENEFITS OF WORKING WITH ALTIS

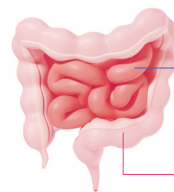
6,000 ft² BSL-2 space

24h equipment monitoring system

Over 50% of laboratory operations staff are PhD- or Master's-level scientists

Multiple regions and donors available

Compare small and large intestine or determine inter-individual variances



Small intestine:
• Duodenum and Jejunum

Colon:
• Ascending Colon, Transverse Colon, and Descending Colon

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