

# RepliGut<sup>®</sup> Planar Kits

Convenient kits that recreate the complexity of the human intestinal epithelium *in vitro*

## REPLIGUT<sup>®</sup> PLANAR

RepliGut<sup>®</sup> Systems kits contain region-specific stem cells, support matrix, and growth media that drives the maturation of stem cells into key cell types in the intestinal epithelium.

Within 7 days, grow fully functional, confluent intestinal epithelium monolayers with tight junctions for barrier function, permeability studies, and more.

## HOW WE DO IT

### KIT COMPONENTS



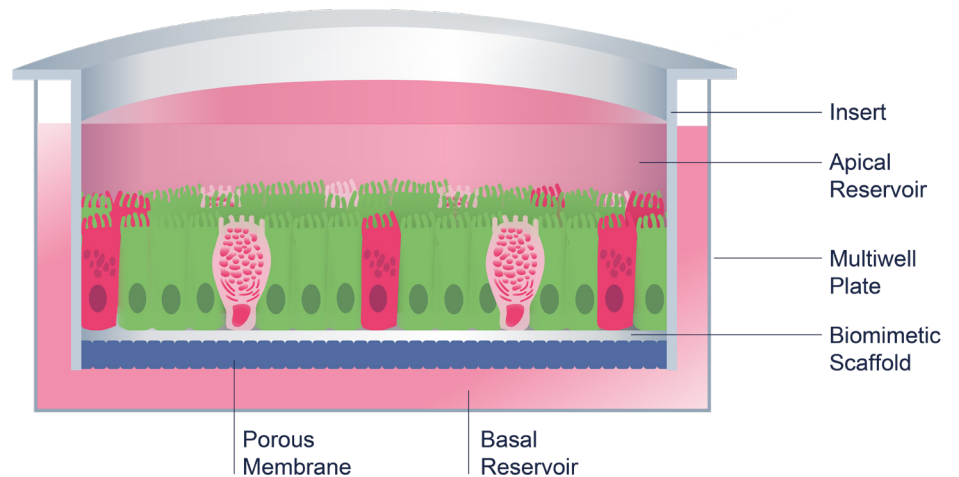
12- or 96-well with Hydrogel coating



Region-specific stem cells



Growth and maturation media



### HIGH TEER MONOLAYER OF MATURE INTESTINAL EPITHELIAL CELLS

TRANSWELL CROSS-SECTION

## APPLICATIONS



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



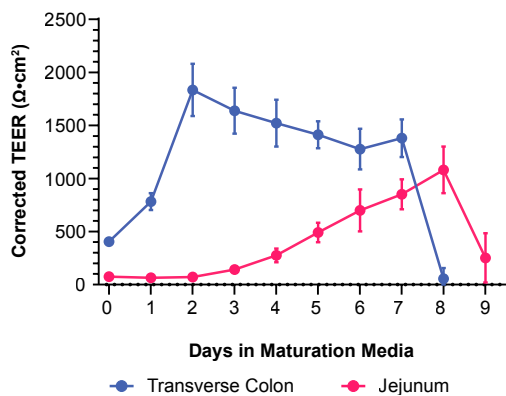
Model inflammation for discovery of anti-inflammatory targets.



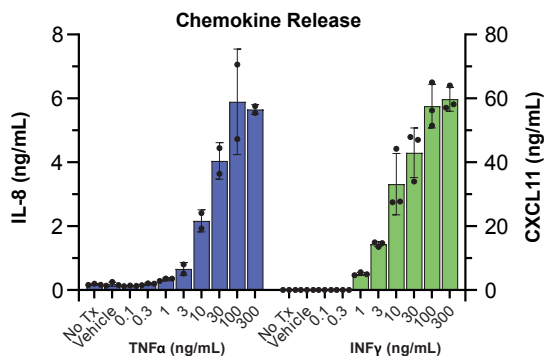
Study functional differences between small and large intestinal cells.

## SAMPLE DATA

### INTESTINAL BARRIER FUNCTION



### INFLAMMATORY RESPONSE



## BENEFITS OF WORKING WITH ALTIS

### DIVERSE BIOBANK

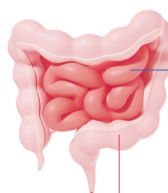
An ethically sourced biobank consisting of multiple intestinal regions from multiple donors allows for both cross-region and cross-donor studies.

### EXPERT SUPPORT

Kit purchase includes a detailed protocol and 1-hour of scientific consultation.

### 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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