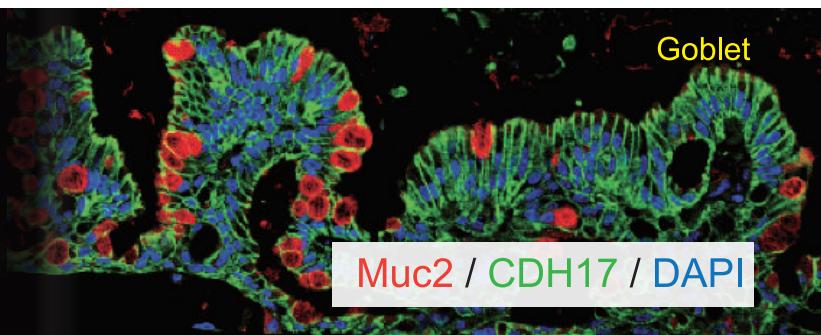
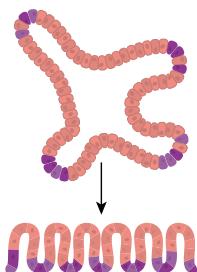


MimEX™ GI TISSUE MODEL SYSTEMS



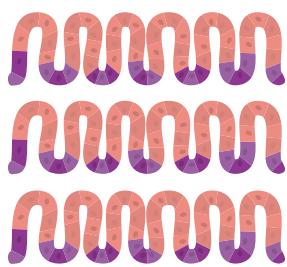
- Disease 모델 구현
- 약물독성, 흡수 및 신진대사 연구
- Biomarker Discovery
- 크론병, 과민성 장 증후군, Microbiome, Gastrointestinal cancer, Metastasis 연구

01 Benefits of MimEX™ GI



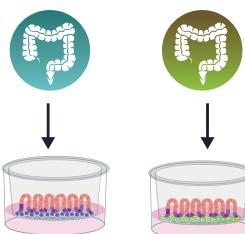
Organoid Tissue

- Biopsy 결과와 유사한 morphology
- Tight junction재현



Tissue Consistency

- 일정한 tissue Size
- 일정한 tissue shape
- 높은 재현성



Clonal Expansion and Gene Editing

- Disease 모델 구현
- Drug screening 가능
- Toxicology test 가능
- Biomarker 발굴



Preservation of Diseased Tissue

- Gene editing 연구 가능
ex) CRISPR-Cas9

02 Overview

Isolate Adult GI Stem Cells

using the MimEX™ Tissue Processing Kit ORz start directly with MimEX™ GI Stem Cells.

Expand Adult GI Stem Cells

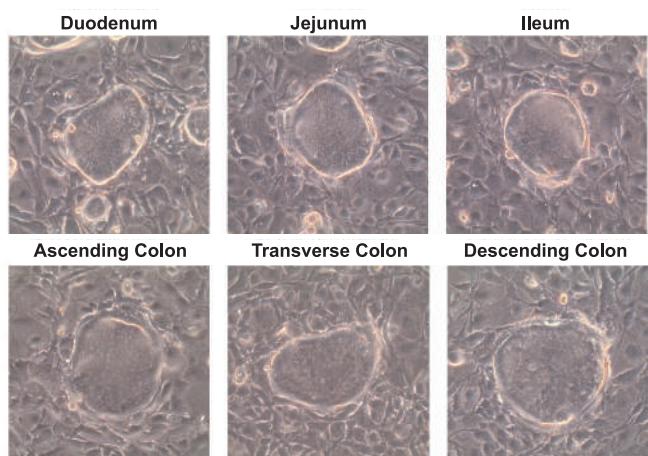
in a 2-D culture using MimEX™ GI Expansion Media.

Differentiate Adult GI Stem Cells into 3-D Gastrointestinal Tissue

using MimEX™ GI Differentiation Media and an air-liquid culture system.



Duodenum
Ileum
Colon

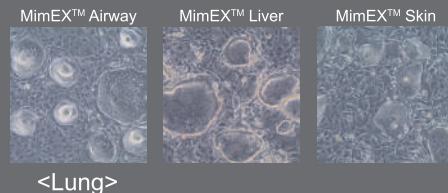




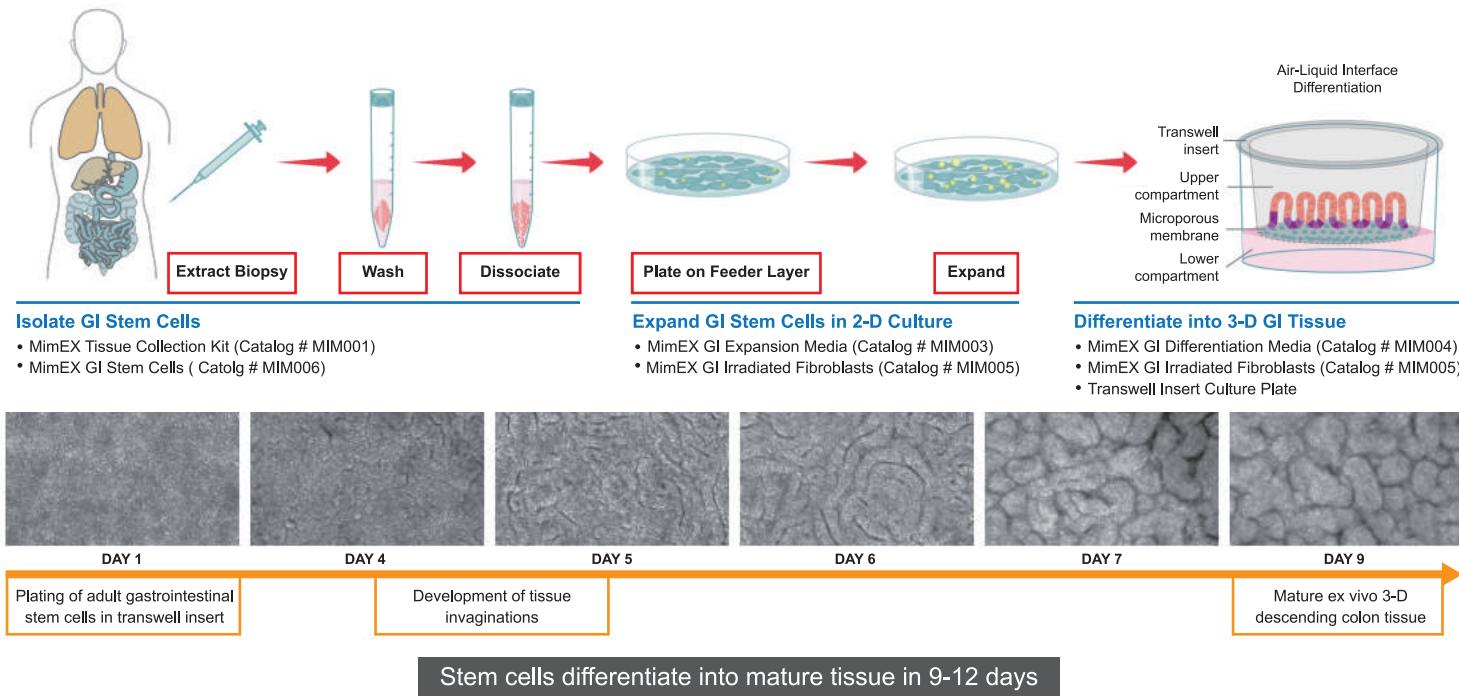
MimEX™ GI

Available Now!

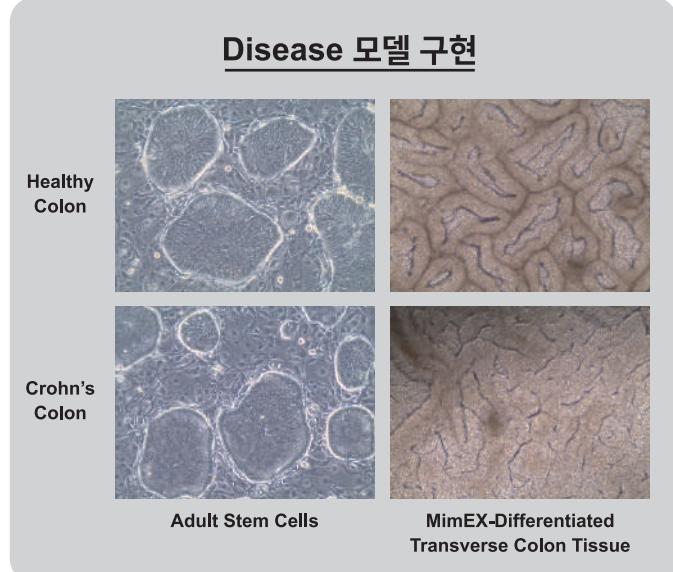
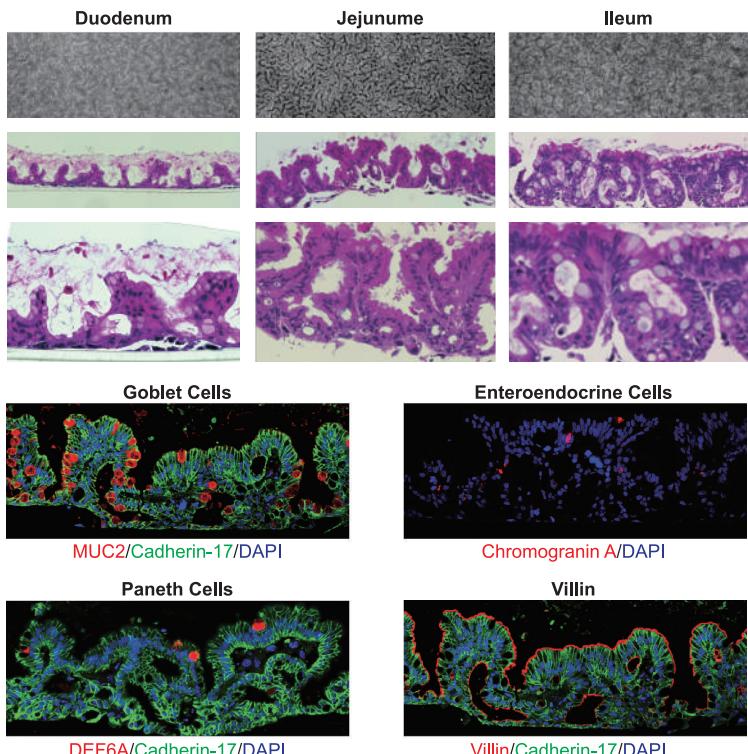
coming soon 모델



03 Workflow and Time-course



04 Case Studies - Regional Specificity and Characterize



R&D SYSTEMS
a biotechnne brand