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**Name of Journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 47858

**Manuscript Type:** REVIEW

**Intestinal enteroids/organoids: A novel platform for drug discovery in inflammatory bowel diseases**

Jun-Hwan Yoo, Mark Donowitz

### Abstract

The introduction of biologics such as anti-tumor necrosis factor (TNF) monoclonal antibodies followed by anti-integrins has dramatically changed the therapeutic paradigm of IBD (inflammatory bowel diseases). Furthermore, a newly developed

anti-p40 subunit of interleukin (IL) 12 and IL 23 (ustekinumab) has been recently



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## Fitting tissue chips and microphysiological systems into ...

<https://journals.sagepub.com/doi/10.1177/1535370217732765>

**Microphysiological systems** (MPS), which include engineered **organoids** (EOs), single **organ/tissue** chips (TCs), and multiple organs interconnected to create miniature in vitro models of human **physiological** systems, are rapidly becoming effective tools for **drug** development and the mechanistic understanding of tissue physiology and pathophysiology.

Cited by: 6

Author: David E Watson, Rosemarie Hunziker, Jo...

Publish Year: 2017

## MicroRNA-215: From biology to theranostic applications ...

<https://www.sciencedirect.com/science/article/pii/S0098299719300019>

Mar 26, 2019 - Since the **discovery** of lin-4 and let-7 in ... Levels of miR-215 were further decreased in **intestinal tumor organoids** relative to normal epithelial **organoids**. ... (2018), suggesting that up-regulation of miR-215 may be specific to **inflammatory bowel** disease. Importantly, it was found that its up-regulation may be detected up to five ...

## Organoid technology and applications in cancer research ...

<https://jhoonline.biomedcentral.com/articles/10.1186/s13045-018-0662-9>

Sep 15, 2018 - Another potential application is that **organoid** technology facilitates **drug** testing and guides personalized therapy. ... The conversion from healthy human **intestinal organoids** to colorectal progressive tumoroids has been achieved ... Rubin MA and colleagues applied the **organoid platform** to identify the optimized combination therapy options for ...

Cited by: 3

Author: Hanxiao Xu, Xiaodong Lyu, Ming Yi, Weih...

Publish Year: 2018

## (PDF) Organoid technology and applications in cancer research

[https://www.researchgate.net/publication/327676386\\_Organoid...](https://www.researchgate.net/publication/327676386_Organoid...)

identification of **novel** targeted therapies. **Organoids** can also promote the development of ... oids as a **platform**. **drug** response was partly a ... version from healthy human **intestinal organoids** to



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### [Drug Discovery via Human-Derived Stem Cell Organoids](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5032635>

Sep 22, 2016 · Patient-derived **stem cell organoids** are new and effective models for the **development of novel** targeted therapies. With the use of **intestinal organoids** from patients with inherited diseases, the potency and toxicity of **drug candidates** can be evaluated better.

Cited by: 23 Author: Fangkun Liu, Fangkun Liu, Jing Huang, B...

Publish Year: 2016

### [Human enteroids as an ex-vivo model of host-pathogen ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4380516>

**Enteroids/organoids** are currently being assessed as 3-D structures to determine whether they reproduce characteristics of normal **human intestine**. Our studies employ the isolation methods and culture conditions outlined by Sato et al. 3 to generate **enteroids** from whole **intestinal crypts** isolated from biopsies or surgically resected tissues. Several aspects related to the use of **enteroids** for ...

Cited by: 103 Author: Jennifer Foulke-Abel, Julie In, Olga Kovb...

Publish Year: 2014

### [Human Enteroids/Colonoids and Intestinal Organoids ...](#)

[www.jbc.org/content/291/8/3759.full](http://www.jbc.org/content/291/8/3759.full)

Feb 19, 2016 · Potential applications for these **ex vivo intestinal** models include further understanding of normal digestive physiology, developmental biology, and pathophysiology of **intestinal diseases** including inflammatory **bowel diseases**, cystic fibrosis (CF), host-pathogen interactions, and regenerative medicine (9, 12 – 16). **Mini-intestines** are also being used to **study drug absorption/toxicity**, **intestinal wound healing**, genetic engineering...

Cited by: 120 Author: Nicholas C. Zachos, Olga Kovbasnjuk, Je...

Publish Year: 2016 Author: Nicholas C. Zachos

### [\[PDF\] Adult Canine Intestinal Derived Organoids: A Novel In ...](#)

<https://smartpharmacology.com/wp-content/uploads/2018/12/BioRxiv-Submission.pdf>

4 for the study of infectious **diseases of the GI tract**, and as a **drug screening** tool for 5 personalized medicine in diseases such as cystic fibrosis (CF) [13, 24]. 6 7 In this study, we have developed 3D **canine intestinal organoids** from healthy dogs and 8 dogs with GI diseases, including IBD and **intestinal carcinomas**. **Intestinal organoids**,

### [Intestinal Organoids as a Novel Complementary Model to ...](#)

[https://www.researchgate.net/publication/331878596\\_Intestinal\\_Organoids\\_as\\_a\\_Novel...](https://www.researchgate.net/publication/331878596_Intestinal_Organoids_as_a_Novel...)

**Intestinal Organoids as a Novel Complementary Model to Dissect Inflammatory Bowel Disease** Article (PDF Available) in **Stem Cells International** 2019(1):1-15 · March 2019 with 50 Reads

### [Industrialising organoids for the next generation of drug ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4380516/>  
<https://www.drugtargetreview.com/article/18640/industrialising-organoids-x>



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## Human Enteroids/Colonoids and Intestinal Organoids ...

[www.jbc.org/content/291/8/3759.full](http://www.jbc.org/content/291/8/3759.full)

Feb 19, 2016 · Human **Intestinal** Stem Cell-derived Mini-intestines: **Enteroids** Versus **Organoids** .

Currently, the two primary ways to generate human mini-intestines include (a) isolation of **intestinal** crypts, which contain human adult stem cells, from donors or (b) use of human embryonic or inducible pluripotent stem cells (iPSCs). 3 Both methods have been described in detail and reviewed elsewhere ...

Cited by: 120

Author: Nicholas C. Zachos, Olga Kovbasnjuk, Je...

Publish Year: 2016

Author: Nicholas C. Zachos

## Drug Discovery via Human-Derived Stem Cell Organoids

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5032635>

Sep 22, 2016 · **Drug Discovery** via Human-Derived Stem Cell **Organoids**. ... Dysregulation of this system may contribute to the development of **intestinal inflammatory diseases** such as celiac disease, IBD, and **intestinal ... drug screening platforms** through **organoid** proved to be a useful preclinical model for pharmacodynamic profiling of human tumors (Vaira ...

Cited by: 23

Author: Fangkun Liu, Fangkun Liu, Jing Huang, B...

Publish Year: 2016

## [PDF] Adult Canine Intestinal Derived Organoids: A Novel In ...

<https://smartpharmacology.com/wp-content/uploads/2018/12/BioRxiv-Submission.pdf>

3 **intestinal** epithelia interact with the gut microbiome to modulate GI health and disease, 4 for the study of infectious **diseases** of the GI tract, and as a **drug** screening tool for 5 personalized medicine in **diseases** such as cystic fibrosis (CF) [13, 24]. 6 7 In this study, we have developed 3D canine **intestinal organoids** from healthy dogs and

## Intestinal Organoids as a Novel Complementary Model to ...

[https://www.researchgate.net/publication/331878596\\_Intestinal\\_Organoids\\_as\\_a\\_Novel...](https://www.researchgate.net/publication/331878596_Intestinal_Organoids_as_a_Novel...)

**Intestinal Organoids as a Novel Complementary Model to Dissect Inflammatory Bowel Disease** Article (PDF Available) in *Stem Cells International* 2019(1):1-15 · March 2019 with 50 Reads

## Drug Discovery via Human-Derived Stem Cell Organoids

<https://www.frontiersin.org/articles/10.3389/fphar.2016.00334/full>

Sep 22, 2016 · Patient-derived cell lines and animal models have proven invaluable for the understanding of human **intestinal diseases** and for **drug** development although both inherently comprise disadvantages and caveats. Many genetically determined **intestinal diseases** occur in specific tissue microenvironments that are not adequately modeled by monolayer cell culture.

Cited by: 23

Author: Fangkun Liu, Fangkun Liu, Jing Huang, B...