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... G-**protein** coupled receptor 5. MARVEL myelin and lymphocyte and related **proteins** for vesicle ... Recent experimental evidence indeed implicates a crucial **function** of barrier dysfunction in the onset ... This article focuses on the **role** of the **intestinal** epithelium during maintenance of ...

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

**Manuscript NO:** 54141

**Manuscript Type:** REVIEW

### The role of regenerating islet-derived proteins in inflammatory bowel disease

Edwards JA *et al.* REG proteins in IBD

Jodi-Ann Edwards, Nicholas Tan, Nadlie Toussaint, Peiqi Ou, Cathy Mueller, Albert Stanek, Vladimir Zinsou, Sean Roudnitsky, Michelle Sagal, Lisa Dresner, Alexander Schwartzman, Chongmin Huan

#### Abstract

Inflammatory bowel disease (IBD) is an inflammatory disorder of the gastrointestinal tract that affects millions of patients worldwide. It has a complex and multifactorial etiology leading to excessive exposure of intestinal epithelium to microbial antigens, inappropriate activation of the immune system and ultimately to the damage of intestinal tissues. Although numerous efforts have been made to improve the disease management, IBD remains persistently recurring and beyond cure. This is due largely to the gaps in our understanding of the pathogenesis of IBD that hamper the development of timely

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**Author:** Ryodai Shindo, Takaharu Katagiri, S... **Publish Year:** 2020

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**Regenerating islet-derived protein 3A (Reg3A)**, a **protein** mainly expressed in the digestive system, has been found over-expressed in many kinds of gastrointestinal cancer, including hepatocellular carcinoma, pancreatic cancer, gastric cancer, and colorectal cancer, therefore has been considered as a promising tumor marker.

**Author:** Meng-ya Zhang, Jun Wang, Jie Guo **Publish Year:** 2019

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**Author:** Meng-ya Zhang, Jun Wang, Jie Guo **Publish Year:** 2019

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Dec 15, 2011 · Commercially available Abs suitable for quantification of plasma concentrations by ELISA were available for only 1 of these 5 **proteins**, **regenerating islet-derived 3- $\alpha$**  (REG3 $\alpha$ ; supplemental Table 5). The MS characteristics of the identified REG3 $\alpha$  peptides are shown in supplemental Figure 1 and supplemental Table 6.