

Name of Journal: *World Journal of Gastrointestinal Pathophysiology*

Manuscript NO: 32829

Manuscript Type: Review

Paneth cells in intestinal physiology and pathophysiology

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Abstract

Small intestinal mucosa is characterised by villus forming connective tissues with highly specialised surface lining epithelial cells essentially contributing to the establishment of the intestinal border. In order to perform these diverse functions, spatially distinct compartments of epithelial differentiation are found along the crypt-villus axis (CVA), including Paneth cells as a highly specialised cell type. Paneth cells locate in crypts and assist undifferentiated columnar cells, called crypt base columnar cells (CBC cells), and rapidly amplifying cells in the regeneration of absorptive and secretory cell types. There

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Unravelling the pathogenesis of inflammatory bowel disease

RJ Xavier, DK Podolsky - Nature, 2007 - search.proquest.com

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Endothelial apoptosis as the primary lesion initiating intestinal radiation damage in mice

F Paris, Z Fuks, A Kang, P Capodiceci, G Juan... - ..., 2001 - science.sciencemag.org

... We next examined whether microvascular endothelial apoptosis was affected by the administration

of basic FGF (bFGF), which has been reported to enhance murine intestinal stem cell survival and to ... Scale bar, 30 μ m. (B) Endothelial and Paneth cells, but not other ...

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HC Clevers, CL Bevins - Annual review of physiology, 2013 - annualreviews.org

... Therefore, regulated granule secretion pathways likely govern transient variation in the amount of Paneth cell products delivered to the ... Autophagy in Paneth Cells. Autophagy, an evolutionarily conserved essential cellular process, occurs in all cells and functions to recycle ...

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B Khor, A Gardet, RJ Xavier - Nature, 2011 - ncbi.nlm.nih.gov

... These findings suggest that defects in Paneth cell biology may define a subset of patients with Crohn's disease. Cells with high synthetic capacity and secretory activity, such as Paneth cells and goblet cells, have high baseline levels of ER stress, leading to activation of ...

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