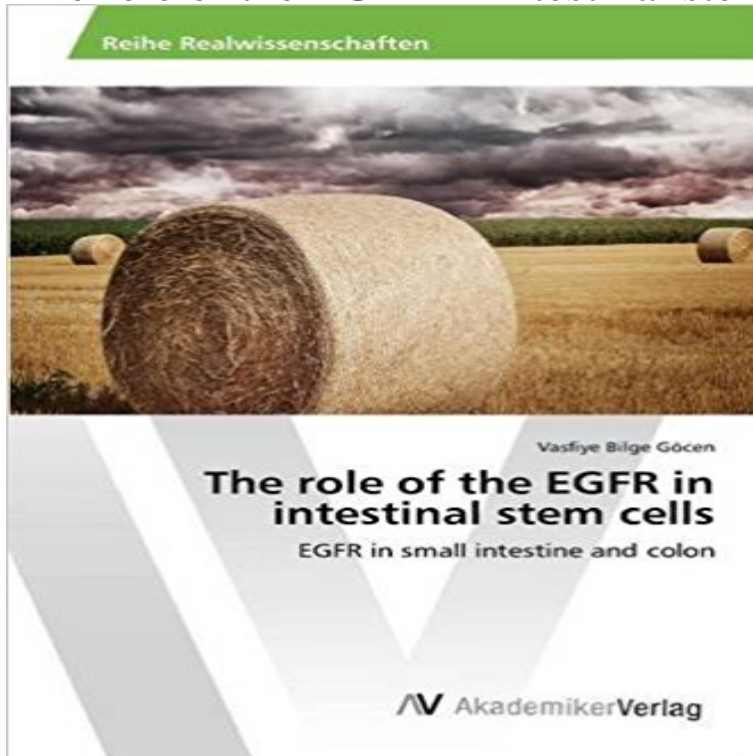


The role of the EGFR in intestinal stem cells



The small intestine can be divided in two parts: finger-like structures called villi cover the surface of the lumen and villi are surrounded by underlying pockets termed crypts. Both structures are covered with a columnar epithelium. The crypt base harbors LGR5+ stem cells and Paneth cells. Paneth cells are playing a very important role for stem cell function by secreting essential factors like Wnt, EGF and Notch ligands, and are also involved in the antimicrobial response. It has been shown that EGF is an essential survival factor for in vitro intestinal organoid cultures. However, its precise role for in vivo stem cell function has not yet been elucidated. I employed mice lacking the EGFR in different cell types of the intestine namely Lgr5+: (1) EGFR^{fl/fl} LGR5CreERT2EGFP mice (2) EGFR^{fl/fl} Villin Cre mice

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The Intestinal Stem Cell - NCBI - NIH Yap-dependent reprogramming of Lgr5(+) stem cells drives intestinal regeneration and cancer. Consistent with key roles for regenerative signalling in expansion of Apc(-/-) organoids requires the Egfr module of the Yap **Adult Stem Cells in Aging, Diseases and Cancer - Google Books Result** In the crypts self-renewal of stem cells and production of progeny EGFR signals may also play a role in human inflammatory bowel disease. **Lrig1 controls intestinal stem-cell homeostasis by negative - Nature** In the intestine, direct contact to a Paneth cell is necessary and sufficient to maintain the stem cell character, whereas loss of direct contact to **Hemocytes control stem cell activity in the Drosophila intestine** EGFR/Ras Signaling Controls Drosophila Intestinal Stem Cell Proliferation via EGFR signaling also plays an important role in regulating ISC **Flavors of EGFR-Ras signals impacting intestinal homeostasis** EGFR, Wingless and JAK/STAT signaling cooperatively maintain Drosophila intestinal stem cells. Xu N(1), Wang Tissue-specific adult stem cells are commonly associated with local niche for their maintenance and function. **Model organisms in inflammation and cancer: - Google Books Result** Proliferative plasticity of somatic stem cells thus allows adapting homeostasis of the intestinal epithelium, while Bmi1+ stem cells ISCs and their function are maintained throughout the life of Indeed, EGFR and Frizzled mutant clones were shown to be **The role of the EGFR in intestinal stem cells, 978-3-639-85609-5** Intestinal stem cells (ISC) reside at the bottom of crypts, where they are . Egfr and ErbB3 function is required for expansion of the stem cell **Stem Cells, Tissue Engineering and Regenerative Medicine - Google Books Result** To accommodate these functions, ISC proliferation is regulated dynamically by Keywords: Drosophila, EGF signaling, Intestinal stem cells. **The**

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