



WEEKLY GI RESEARCH WEBINAR

"Helicobacter, hedgehog and Gastric Cancer"

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Dr. Merchant has made significant scientific contributions to the role of Hedgehog signaling in normal gastric physiology and during gastric preneoplasia. Her studies have demonstrated that the parietal cells and therefore acid secretion requires sonic hedgehog signaling. More recently, she has found that myeloid-derived suppressor cells (MDSCs) require Hedgehog signaling to create a permissive environment that supports to the development of gastric metaplasia.

References:

- Merchant JL and Ding L. Merchant JL and Ding L. Hedgehog signaling links chronic inflammation to gastric cancer precursor lesions. *Cellular Mol Gastroenterol Hepatol*; 2017:201-210. PMC5331830
- Ding L, Li Q, Chakrabarti J, Munoz A, Faure-Kumar E, Ocadiz-Ruiz R, Razumilava N, Zhang G, Hayes MH, Sontz RA, Mendoza ZE, Mahurkar S, Greenson JK, Perez-Perez G, Hanh NTH, Zavros Y, Samuelson LC, Iliopoulos D, Merchant JL. MiR130b from Schlafen4+-MDSCs stimulates epithelial proliferation and correlates with preneoplastic changes prior to gastric cancer. *Gut*, 2020, 69:1750-1761. PMC7377952
- Ding L, Hayes MM, Photenhauer A, Eaton KA, Li Q, Ocadiz-Ruiz R, Merchant JL. Helicobacter Infection and Hedgehog signaling Induce Schlafen-4-Expressing Myeloid Derived Suppressor Cells During Gastric Metaplasia. *J Clin Invest*. 2016; 126:2867-80. PMC4966326.

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