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Gut-brain crosstalk regulates craving for fatty food

Rajendra Raghov,

Abstract

Patients undergoing Roux-en-Y gastric bypass (RYGB) surgery elicit striking loss of body weight. Anatomical re-structuring of the gastrointestinal (GI) tract, leading to reduced caloric intake and changes in food preference, are thought to be the primary drivers of weight loss in bariatric surgery patients. However, the mechanisms by which RYGB surgery causes a reduced preference for fatty foods remain elusive. In a recent report, Hankir *et al* described how RYGB surgery modulated lipid nutrient signals in the intestine of rats to blunt their craving for

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[EA Mayer](#) - Nature reviews. Neuroscience, 2011 - [ncbi.nlm.nih.gov](#)

... Recent neurobiological insights into this gut-brain crosstalk have revealed a complex, bidirectional communication ... reviewed in REFS 10, 11), and most recently, microbial gut-brain signalling (reviewed in ... into a variety of local intramural reflexes that regulate and integrate gut ...

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[RS Ahima](#), DA Antwi - Endocrinology and metabolism clinics of North ..., 2008 - Elsevier

... Gut-brain connection. ... Leptin regulates arcuate hypothalamic neurons directly by binding to LRb, activating JAK-STAT3 signaling, and regulating neuropeptide expression ... 52 Studies also indicate a cross-talk between leptin and insulin signaling in the hypothalamus 52 (see Fig. ...

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[HR Berthoud](#) - Neurogastroenterology & Motility, 2008 - Wiley Online Library

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