

Changes of the Ghrelin/GOAT axis and the mTor pathway in the hypothalamus

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**Obesity** itself triggers insulin resistance and thereby poses the risk of T2DM. ... Keywords: Bariatric surgery, diabetes remission, incretin, **Type 2 diabetes** ... band (AGB), **sleeve gastrectomy** (SG), B. malabsorptive procedure-duodeno jejunal bypass and C. .... The **mTOR pathways** and **ghrelin/GOAT axis** interact reciprocally.

[Gastrointestinal Hormones and Bariatric Surgery-induced Weight Loss](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4423817/>

The mechanism by which bariatric surgery results in body weight **changes** is ... The health risks of **obesity** are numerous and grave: **type 2 diabetes**, ... In the US, LAGB occupies second place **after** gastric bypass, and represents 29% of the ... **Sleeve gastrectomy** (SG) is a left partial gastrectomy of the fundus and body, ...

[The cellular and molecular bases of leptin and ghrelin resistance in ...](#)

[www.nature.com/nrendo/journal/vaop/.../full/nrendo.2016.222.html?...](http://www.nature.com/nrendo/journal/vaop/.../full/nrendo.2016.222.html?...)

24 Feb 2017 ... **Obesity**, a major risk factor for the development of diabetes mellitus, ... of the cellular **pathways** that disrupt the action of leptin and **ghrelin**. .... phenomenon that is similar to insulin resistance in patients with **type 2 diabetes** mellitus. .... days old) **rats** do not show any **change** in the **hypothalamic** expression of ...

[References in Ghrelin - Molecular Metabolism](#)

[www.molmetab.com/article/S2212-8778\(15\)00060-5/references](http://www.molmetab.com/article/S2212-8778(15)00060-5/references)

25 Mar 2015 ... Z. et al, **Ghrelin** stimulates gastric acid secretion and motility in **rats**. ... J. et al, Altered lipid and salt taste responsivity in **ghrelin** and **GOAT** null mice. .... **hypothalamic** ...

Name of Journal: World Journal of Gastroenterology

Manuscript NO: 33850

Manuscript Type: ORIGINAL ARTICLE

### Basic Study

Changes of the Ghrelin/GOAT axis and the mTOR pathway in the hypothalamus after sleeve gastrectomy in obese type-2 diabetes rats

Qiang Wang, Wei Tang, Wen-Sheng Rao, Xin Song, Cheng-xiang Shan, Wei Zhang

### Abstract

#### AIM

To examine the changes of the ghrelin/GOAT axis and the mTOR pathway in the hypothalamus after sleeve gastrectomy.

### Match Overview

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[Ghrelin - ScienceDirect](http://www.sciencedirect.com/science/article/pii/S2212877815000605)

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21 Mar 2015 ... The gastrointestinal peptide hormone **ghrelin** was discovered in 1999 as ... Purified from **rat** stomach extracts, the 28 amino acid peptide was named '**ghrelin**', a name ... Second, **ghrelin** and **GOAT** share a similar tissue expression .... with height under conditions of **obesity** and **diabetes** [reviewed in [104]].

[Ghrelin - Wikipedia](https://en.wikipedia.org/wiki/Ghrelin)

<https://en.wikipedia.org/wiki/Ghrelin>

**Ghrelin** the "hunger hormone", also known as lenomorelin (INN), is a peptide hormone ... It acts on **hypothalamic** brain cells both to increase hunger, and to increase gastric acid ... **after** the **ghrelin** receptor (called growth hormone secretagogue **type 1A** ... **pathways** are probable, including the gastric intracellular **mTOR/S6K1** ...

[The cellular and molecular bases of leptin and ghrelin resistance in ...](http://www.nature.com/nrendo/journal/vaop/.../nrendo.2016.222.html?WT...)

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24 Feb 2017 ... **Obesity**, a major risk factor for the development of diabetes mellitus, ... of the cellular **pathways** that disrupt the action of leptin and **ghrelin**. ..... phenomenon that is similar



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## Relationship between gut hormones and glucose homeostasis after ...

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作者 : PC Sala - 2014 - 被引用次数 : 14 - 相关文章

2014年8月16日 - Keywords: **Type 2 diabetes** mellitus, **Obesity**, Bariatric surgery, Gut ... Summary of the main **changes** in gut hormones **after** bariatric surgery\* [13] [16] ... a mixed technique, and laparoscopic **sleeve gastrectomy** ((LSG) n:107) ... There is reciprocal interaction between **mTOR pathways** and **ghrelin/GOAT axis**.

## Bariatric surgery and diabetes remission: Who would have thought it?

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作者 : AK Singh - 2015 - 被引用次数 : 9 - 相关文章

**Obesity** itself triggers insulin resistance and thereby poses the risk of T2DM. ... Keywords: Bariatric surgery, diabetes remission, incretin, **Type 2 diabetes** ... gastric band (AGB), **sleeve gastrectomy** (SG), B. malabsorptive procedure-duodeno jejunal bypass ..... The **mTOR pathways** and **ghrelin/GOAT axis** interact reciprocally.

## Ghrelin - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4443295/> - 翻译此页

作者 : TD Müller - 2015 - 被引用次数 : 107 - 相关文章

2015年3月21日 - **2**. Discovery of **ghrelin** as the endogenous ligand of the growth hormone ... Humans, **rats**, mice, and zebrafish all exhibit functional **GOAT** activity, and .... Clinical pharmacology studies on **ghrelin's** effect on the GH-Axis ... (SNPs) with height under conditions of **obesity** and **diabetes** [reviewed in [104]]. At high ...

## Obesity, energy balance and spermatogenesis - Reproduction

[www.reproduction-online.org/content/153/6/R173.long](http://www.reproduction-online.org/content/153/6/R173.long) - 翻译此页

2017年3月10日 - Effects of **ghrelin** and leptin on male reproductive tract and reproductive ... by disrupting both the **hypothalamic**–pituitary–thyroid (HPT) **axis**, ... 2015), leptin activates the **mTOR pathway** triggering lipid droplet formation. .... Thus, it is likely that metabolic diseases, such as