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2 Sep 2016 ... Background Human gastric fundus relaxation is mediated by ... Methods Gastric fundus muscle strips (12 circular and 13 ... F. Modulation of nitregeric relaxant ... nitregeric contribution to gastric

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 34981

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### Basic Study

**Glucagon-like peptide-2 modulates the nitregeric neurotransmission in strips from the mouse gastric fundus**

Rachele Garella, Eglantina Idrizaj, Chiara Traini, Roberta Squecco, Maria Giuliana Vannucchi, Maria Caterina Baccari

### Abstract

#### AIM

To investigate whether glucagon-like peptide-2 (GLP-2) influences the neurally-induced responses in gastric strips from mice, since no data are available.

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A Amato, S Baldassano, R Serio... - American Journal of ..., 2009 - Am Physiological Soc

... glucagon-like-peptide-2 (GLP-2) is a proglucagon-derived peptide produced in the "L" cells, a subset of ... Circular muscle strips (2 × 10 mm) of fundus or antrum were suspended in an organ bath ... 2 and 5% CO 2 ) Krebs solution maintained to 37°C. One end of each strip was tied ...

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[HTML] physiology.org

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P Janssen, A Rotondo, F Mule... - Alimentary pharmacology ..., 2013 - Wiley Online Library

... G, glycine; GLP-1, glucagon-like peptide 1; GLP-2, glucagon-like peptide 2; H, histidine; I ... CNS, central nervous system; GLP-1, glucagon-like peptide 1. Adapted with permission from ... or choline acetyl transferase,[58] and the peptide's ability to modulate negatively, through NO ...

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L Cinci, MS Faussone-Pellegrini... - ..., 2011 - Wiley Online Library

... the activation of GLP-2R located on cholinergic neurons modulated negatively the ... GLP-2R-IR, glucagon-like peptide 2 receptor immunoreactivity; VIP-IR, vasoactive intestinal polypeptide ... excitatory and inhibitory neurons with opposite effects, negatively modulating the former ...

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A Amato, S Baldassano, R Serio, F Mulè - European journal of ..., 2013 - Elsevier

... In fact, it is able to modulate a variety of different membrane receptors such as 5-hydroxytryptamine 3 ... and neostigmine (1 μM), inhibitor of acetylcholinesterase, were added to the Krebs solution to block nitregeric transmission and to potentiate cholinergic neurotransmission. ...

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D Tutor, DA Rotondo, F Mulè, C Mamma - iris.unipa.it

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