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## A novel GIP-oxyntomodulin hybrid peptide acting through GIP, glucagon and GLP-1 receptors exhibits weight reducing and anti-diabetic properties

VK Bhat, BD Kerr, PR Flatt, VA Gault - Biochemical pharmacology, 2013 - Elsevier

... 2.4. cAMP receptor activation. Effects of native GIP, Oxm, dA 2 GIP and dA 2 GIP-Oxm on cAMP production were evaluated in Chinese Hamster Lung (CHL) cells transfected with human GIP [21] or GLP-1 [22] receptors and glucagon receptor transfected HEK293 cells [23] ...

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A Welters, C Klüppel, J Mrugala... - Diabetes, Obesity ..., 2017 - Wiley Online Library

... membrane potentials, and ligand-binding (glutamate or NMDA together with co-agonist glycine or ... Extracellular glutamate activates glutamate receptors and thus influences insulin, glucagon and somatostatin release ... essential role of CREB in mediating the effects of GLP-1 on β ...

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## [PDF] Glucose-dependent insulintropic polypeptide: Effects on insulin and glucagon secretion in humans

MB Christensen - J Clin Endocrinol Metab, 2014 - pdfs.semanticscholar.org

... that the combination of GIP and GLP-1 (as a single molecule co-agonist) provided greater ... control and improved weight loss of co-agonism compared to either GLP-1 or GIP ... In 2010 we published a paper describing investigations focus- ing on the glucagon-releasing properties ...

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### Basic Study

Coagonist of GLP-1 and glucagon receptors ameliorates kidney injury in murine models of obesity and diabetes mellitus

Vishal J Patel, Amit A Joharapurkar, Samadhan G <sup>2</sup>Kshirsagar, Brijesh K Sutariya, Maulik S Patel, Hiren M Patel, Dheerendra K Pandey, Rajesh H Bahekar, Mukul R Jain

### Abstract

#### AIM

This study aims to investigate the role of glucagon-like peptide-1/glucagon receptors





Coagonist of GLP-1 and glucagon receptors ameliorates kidney injury in m



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Both glucagon and GLP-1 reduce appetite and cause weight loss. ... The glucagon receptor is expressed in a broad range of tissues, including the liver, kidney, ... are licensed for the treatment of type 2 diabetes, improving glucose control and ... homeostasis in animal models of diet-induced obesity and diabetes (20,21).

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作者: RV Scott - 2018

glucagon appeared to have little significant function in disease, and its clinical use ... from alloxan-induced diabetes in dogs, to patient with type 1 and type 2 diabetes .... glucagon, GLP-1 and GIP receptors, have been developed, with the aim that the ... that these analogues can reduce body weight in obese mice models.

### Problem or solution: The strange story of glucagon - ScienceDirect

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作者: RV Scott - 2018

Glucagon release is inhibited by hyperglycaemia, insulin, GLP-1 and somatostatin [10–12]. ... body, being particularly abundant in the liver, kidney, heart and adipose [13]. ... blood glucose excursions in mice including diabetic models [48–50]. ... of increased cholesterol, type 2 diabetes and cardiovascular disease [60,61,67 ...

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作者 : SJ Brandt - 2018

Unimolecular agonists targeting the receptors for GLP-1, GIP and Glucagon offer ... among the best-in-class pharmacotherapies to treat obesity and type 2 diabetes. ... the development and progression of diabetic kidney disease than placebo [43]. ... Interestingly, in DIO mice, the GLP-1/glucagon co-agonist restores leptin ...

## Problem or solution: The strange story of glucagon - NCBI - NIH

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作者 : RV Scott - 2018

This rooted glucagon as a central problem in the disease. Glucagon ... Agents developed to block activity at the glucagon receptor to treat diabetes ... NOX-G15 ameliorates hyperglycaemia in murine models of type 1 and type 2 diabetes. ... Tschop M.H. A new glucagon and GLP-1 co-agonist eliminates obesity in rodents.

## GLP-1/glucagon receptor co-agonism for treatment of obesity ...

<https://link.springer.com/article/10.1007/s00125-017-4354-8> - 翻译此页

作者 : MA Sánchez-Garrido - 2017 - 被引用次数 : 7 - 相关文章

Over a relatively short period, obesity and type 2 diabetes have come to represent a large ... function at