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Basic Study

Changes in expression of inhibitory substances in the intramural neurons of the stomach following streptozotocin- induced diabetes in the pig

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Abstract

AIM

To investigate of hyperglycemia on chemical coding of enteric neurons in stomach using pig as a model for human diabetic complications.

METHODS

Ten pigs were divided into two groups: diabetic (D group, n=5) and control (C

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13 Aug 2015 ... In the present study, the effect of **streptozotocin-induced diabetes** on the cocaine- ... To induce **diabetes**, the **pigs** were administered intravenously ... Also, no **changes** in the CART-like immunoreactivity in the intraganglionic nerve ... of the CART **expression** in enteric perikarya throughout entire **stomach** as ...

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However, the magnitude of hyperglycemia-induced **changes** in **gastric** (e.g., acetylcholine, serotonin, **substance P** (SP)) or **inhibitory** (e.g., NO, vasoactive Reduced density of PGP 9.5 positive **intramural** nerve fibers was described in the ... of nNOS-expressing **neurons** were observed in BB/W rats, ' **STZ-diabetic** rats, ' ...

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12 Dec 2008 ... They called the **substance** "secretin. ... Exogenous administration of the peptide **inhibited gastric** acid ... GIP and GLP-1 are secreted **after** food ingestion, and they then **Expression** of the gip gene in the gut is regulated by nutrients ... increase in strepto-zotocin (STZ)-induced **diabetic** rats, suggesting that ...

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Enhanced NGF receptor **expression** in **neuronal** cell bodies, nerve fibers, ... Synopsis of Some Adaptive **Changes** Occurring in the ENS ... **Inhibition** of electrically evoked contractions in LMMP strips of the guinea **pig** ileum in the esophagus and the cardiac **stomach**. reported in rats with **streptozocin- induced diabetes**..

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2 Aug 2008 ... Keywords: Urinary bladder, Urethra, Primary afferent **neurons**, ... VIP-IR is also **expressed** in a subpopulation of **intramural** bladder ganglion These studies demonstrate **changes** in PACAP **expression** in micturition reflex pathways **after** Uvelius B. Effects of age and **streptozotocin-induced diabetes** on ...

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4 Dec 2013 ... P2X and P2Y receptors are widely **expressed** in myenteric and ... of adenosine 5'-triphosphate (ATP) on autonomic **ganglia** [216] and a paper ... Purines also can act on sensory nerve endings in the **gut** wall **after** ... A subpopulation of **intramural** enteric nerves provides NANC **inhibitory** innervation of ...

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However, the magnitude of hyperglycemia-induced **changes** in **gastric** emptying acetylcholine, serotonin, **substance P** (SP)) or **inhibitory** (e.g., NO, vasoactive intestinal Degeneration of **intramural** adrenergic fibers was also reported in the of nNOS-expressing **neurons** were observed in BB/W rats, **STZ-diabetic** rats, ...

[Gastric nNOS reduction accompanied by natriuretic peptides ... - NCBI](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4000499/)

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28 Apr 2014 ... METHODS: **Diabetic** mice were **induced** by injection of **STZ** solution. RESULTS : Eight weeks **after** injection, 43 **diabetic** mice were obtained ... **changes** of nerve growth factors and impaired brain-gut interactions may be involved[9]. ... It has been reported that nNOS is **expressed** on **inhibitory neurons** and ...

[Taste receptors of the gut: emerging roles in health and disease | Gut](http://gut.bmj.com/content/63/1/179)

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Sweet, umami and bitter taste receptors are differentially **expressed** within the in the **gut** also show **changes** in sweet taste sensitivity **after gastric** bypass surgery. **chemicals**:

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the rat striatum **after** administration of cocaine and amphetamine (Douglass et al., ... ber of **neurons** immunoreactive to CART have been observed in **gastric** ... **induced** in amputation and axotomy, show that **changes in expression** of CART in ... transcript (CART) in the porcine **intramural neurons** of **stomach** in the course of ...

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