

**To the Editor of World Journal of Gastroenterology**

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**Here are correction:**

**1. Abstract:**

Reviewer : „*The text of the abstract is too long, specifically the results paragraph. A lot of numerical data are included and even some of them are repeated (22.28+/-1.19%, 15.91+/-0.58%, ...). I suggest changing data (mean+/-SEM) from streptozotocin-treated animals by the percentage of increase (or decrease) over the mean of the control animals*”.

Response:

As suggested by the referee the text of abstract will be shortened as well as data will be changed according to suggestion of referee.

**2. Introduction:**

Reviewer : “ *In the second paragraph I suggest changing “In this physiological condition” by “In physiological conditions”, as well as the term “resorption” by “absorption”. Remove the comma: “in the dog, ileum galanin ...”*”

Response:

In accordance to recommendation of the referee all suggestion will be implemented.

**3. Material and methods:**

Reviewer : „*Please, specify how is administered the 250 ml of a 50% glucose solution. Subcutaneous? In the last sentence of this section: “(aP <0.05)”. The “a” before P should be removed.*

*Why other significations different from  $P < 0.05$  are not checked ( $P < 0.01$  or  $P < 0.001$ )?”.*

Response:

Glucose solution was administrated intravenously.

According to the reviewer suggestion we decided to check other significations different :  $P < 0.01$  and  $P < 0.001$  and added it to table with results.

So, we decided to modified following sentences in material and method section:

From: Significant differences were evaluated using Student's t-test for independent samples ( $P < 0.05$ ).

To: Significant differences were evaluated using Student's t-test for independent samples (<sup>a</sup> $P < 0.05$ , <sup>b</sup> $P < 0.01$ , and <sup>c</sup> $P < 0.001$ ).

The 'a' before P is requirement by editor.

#### 4. Results:

Reviewer : „Data of plasma glucose levels included in the text and in Table 1 are the same than those previously published by the same group in Table 1 from the paper Bulc et al. J. Mol.

Neurosci. (2015) 57:376-385. However animals from both studies are different because only females were used in the present work while in Bulc et al (2015) both male and female were used. How this is possible? Are these data taken from other database than the correct one?”

Response:

According to the question of referee in fact, the results presented in the table 1 are the same as described in the paper Bulc et al. J. Mol. Neurosci. (2015) 57:376-385 . This is because stomach fragments come from the same animals, however in the present article we used different antibodies. This is due to the Local Ethical Committee instructions to minimize the number of animals in the experiment. Whereas the sex of the animals was unfortunately mistaken as female, in fact the tissues were collected from animals of different sexes. This information will be corrected in materials and methods chapter.

Reviewer : „As occur in the abstract, a lot of numerical data (mean+-SEM) are given in the text of immunofluorescence section of the Results. All of them are included in Table 2. As proposed for abstract I suggest changing these data by the percentage of increase (or decrease) over the mean of the control animals”.

Response:

In the abstract the results are presented as a percentage of increase/decrease over the mean of the control animals. Whereas in the section of the results the results are given as a (mean +/- SEM). In our opinion this method of presentation of the results is more readable as well as in the previous articles we presented results as (mean +/- SEM). Although, as referee suggested, it will also be presented by the percentage of increased/decreased value.

## 5. Discussion:

Reviewer : „*Submucosal ganglia (SG) are only studied in the corpus and not in the antrum. Thus, the sentence “Contrary to these results, in the antrum in both MG and SG, changes in the synthesis of nNOS have not been noted” should be changed by “Contrary to these results, in the MG of the antrum and in the SG of the corpus, changes in the synthesis of nNOS have not been noted”.*

Response:

According to suggestion of the referee this has been changed.

Reviewer: „*Opposite results in streptozotocin-diabetic rats have been showed in the discussion: either decrease or increase in the nNOS expression in the antrum (references 29, 30 and 32). However no explanation is given on this difference. Are the doses of streptozotocin different? Are the protocols different? ...*”

Response:

Opposite results in rodents are probably as a result from the duration time of hyperglycaemia and differences in the rate of metabolism in rodents. As well as different doses of streptozotocin.

Reviewer: „*This sentence should be rewritten: “Only in obese mice with coexisting diabetes has a decrease of galanin in the colon been noted.”*

Response:

This has been rewritten.

Reviewer : „*Changes in the inhibitory myenteric neurons of the gastric corpus, antrum and pylorus as seen in the present work have to evoke changes in gastric motility. Authors should correlate these results with changes in the antrum contractions, in pyloric sphincter*

*relaxations or in gastric emptying previously observed by other authors in diabetic animal models. This study uses the pig as a model for human diabetic complications, thus authors could discuss their results in the inhibitory neurons with abnormalities in gastric emptying observed in diabetic patients”.*

Response:

This has been done : „Our results may partly explain the reason of gastrointestinal motility disorders observed in people with long-term diabetes. Increase of the expression of inhibitory substances may impair the function of the pyloric sphincter relaxation and the antrum contraction. Which, in turn, contributes to gastric emptying which has been observed in humans”.

**Table 1:**

Reviewer: „*I suggest changing the head of the table “Serum glucose levels after induction of diabetes and glucose concentration after streptozotocin administration (up 1 to 6 weeks)” by: “Serum glucose levels in controls and after induction of diabetes by streptozotocin administration (up 1 to 6 weeks)”.*

*Why the statistical significance P values among control and experimental groups are not given in this table?*

Response:

This has been done and the head of table will be changed.

According to the reviewer suggestion we added the statistical significance P values to the table.

**Abbreviations:**

Reviewer: „*Change “ENS enteric nerves system” by “ENS enteric nervous system”*

Response:

According to the reviewer suggestion this will be changed.