

Dear Sir

We are re-submitting the work **“Changes in neurotransmitter levels in the hippocampus and amygdala of rats after ayahuasca ingestion”** to be evaluated and published by *World Journal of Biological Chemistry*.

Initially we would like to thank for all suggestions, they were very important to improve the quality of our manuscript. All suggestions made by referees were accepted and included in the text and are in red to facilitate the identification.

Sincerely

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#### Referee 1

Initially we would like to thank you for all suggestions since they were very important to improve the quality of our manuscript.

- 1- The title was modified as suggestion: **Changes in neurotransmitter levels in the hippocampus and amygdala of rats after ayahuasca ingestion**
- 2- A better description of group of rats used to analyze rats behavioral was included to clarify this point.
- 3- Quantify dimethyltryptamine in the hippocampus and amygdala is really a good suggestion. However, it is not possible to include these data in this manuscript. Each preparation of ayahuasca has different concentrations of active dimethyltryptamine and each experiment must be accompanied by its dosage. We cannot compare data obtained with infusion used in this protocol with the data to be obtained, using a new infusion. Certainly, this new infusion will contain concentrations close but not exactly those used in this assay. Once the idea proposed by the referee is very good, we will start this experiment in a near future.
- 4- This point was clarified on page 6 as a new paragraph.
- 5- Suggestion was accepted and the text was corrected properly

#### Referee 2

Initially we would like to thank for all suggestions since they were very important to improve the quality of our manuscript.

The referee is correct: is not possible at this moment correlate changes in amino acids and monoamines with behavioral alteration since other molecules such as neuropeptides, endorphins and others could also be involved in this process. Thus, a new paragraph was included in Discussion to clarify this point on page 11.

- 1- All mistakes were corrected as suggestion: Chemical concentrations, numbers of table 1 and Legends.