

Federal University of Pampa  
Research Group in Cell Toxicology  
*Campus of Uruguai*

## **Statement of Originality and Relevance**

To Acta Scientiarum Biological Sciences

Dear Editor,

The manuscript entitled " Anabolic-androgenic steroids cycle administration decreases anxious-like behavior but does not affect long-term memory acquisition in rats" which we submit to the Acta Scientiarum Biological Sciences, in an unprecedented way, demonstrates the effect of anabolic-androgenic steroids on anxiety behavioral and long-term memory acquisition in adult male rats undergoing to sedentary life-style or physical effort, with or without anabolic-androgenic steroids (ASC) treatment

The use of these type of hormones by elite and amateur athletes has been commonly reported in the literature as well as their harmful effects on human tissues when used at higher dose. However, there is few data about the effect of these hormones related to behavior and memory acquisition.

Herein, we showed a decrease in anxious-like behavioral levels in rats that received ASC treatment associated or not to physical effort, but this treatment did not affect the acquisition of long-term memory at the dose and the experimental model assessed. These findings point out the prevalence of the testosterone effect despite of nandrolone effect. Therefore, we believe that the data we present here could cooperate with broader discussions about its safety use.

*Prof. Dr. Luís Flávio Souza de Oliveira*

Federal University of Pampa – UNIPAMPA,  
Mail box 118 – Zip code 97.500-970 – Uruguai - RS, Brazil  
E-mail: [luisoliveira@unipampa.edu.br](mailto:luisoliveira@unipampa.edu.br)