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## Statement of Importance

To Acta Scientiarum Biological Sciences

The aim of this study was to demonstrate the effect of androgenic steroids cycle administration on anxious-like behavior and the long-term memory acquisition in rats. Elite and amateur athletes use androgenic hormones in licit and illicit way. Here, we did not discuss about the anabolic effect and its tissue injuries that literature widely report. However, we rise up an issue few approached by the literature: the effect of androgenic hormones used by athletes to assess whether these steroids may cause anxiety and impair long-term memory. To conduct this study, we used well-accept behavioral techniques often used in many studies. Besides, the dose schedule was adapted for rodents, which in this case were rats. Our findings discuss the paradox between the components of hormone formulation, with a predominance of one (testosterone) in relation to the other (nandrolone) in behavioral and memory acquisition.

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