



**I INTERNATIONAL SYMPOSIUM  
IN NEUROSCIENCE**

# **I INTERNATIONAL SYMPOSIUM IN NEUROSCIENCE**

December, 04-06, 2013

Pici Campus - Universidade Federal do Ceará

Fortaleza - Ceará - Brazil

## **CERTIFICATE**

I HERE IN CERTIFY THAT

**CARACAS, P., COSTA, A.T., CARVALHO, P., TAVARES I., MARTINS I.**

PRESENTED THE SCIENTIFIC WORK

***Chronic opioid administration induces up-regulation of  $\mu$  opioid receptors in descending pain facilitatory areas of the brain***

IN THE CATEGORY FREE TOPICS OF THE 1<sup>ST</sup> INTERNATIONAL SYMPOSIUM IN  
NEUROSCIENCE, DECEMBER 4-6<sup>TH</sup>.

FORTALEZA, CEARÁ , BRAZIL.

### **ORGANIZERS**



Universidade Federal do Ceará  
Faculdade de Medicina



**INCT-IBISAB**  
Instituto de Biomedicina do  
Semi-Árido Brasileiro

A handwritten signature in black ink, likely belonging to Reinaldo Barreto Oriá.

Reinaldo Barreto Oriá, PhD  
Executive Committee Coordinator