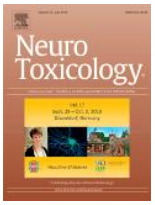
O2k-brief Neurodegenerative

https://wiki.oroboros.at/index.php/O2k-Publications:_Neurodegenerative

High-Resolution Respirometry, brain slices and Parkinson's disease



6-Hydroxydopamine induces different mitochondrial bioenergetics response in brain regions of rat

Débora F. Gonçalves[a], Aline A. Courtes[a], Diane D. Hartmann[a], Pamela C. da Rosa[a], Débora M. Oliveira[a], Félix A.A. Soares[a], Cristiane L. Dalla Corte[a,b,*]

6-OHDA toxicity and mitochondrial bioenergetics in *striatum* slides

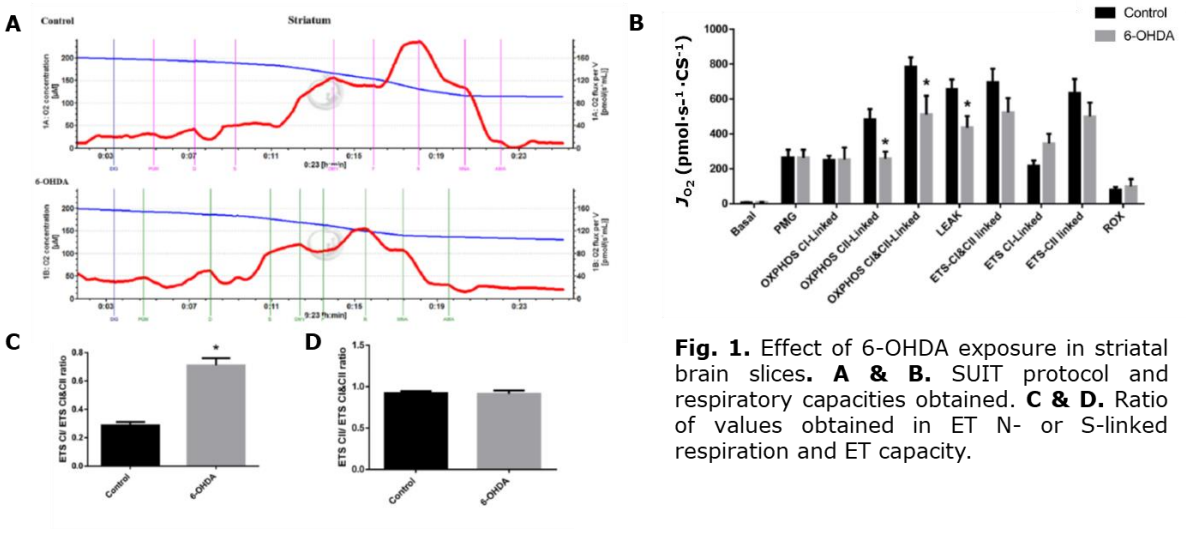


Fig. 1. Effect of 6-OHDA exposure in striatal brain slices**. A & B.** SUIT protocol and respiratory capacities obtained. **C & D.** Ratio of values obtained in ET N- or S-linked respiration and ET capacity.

6-OHDA toxicity and mitochondrial bioenergetics in hippocampus slides

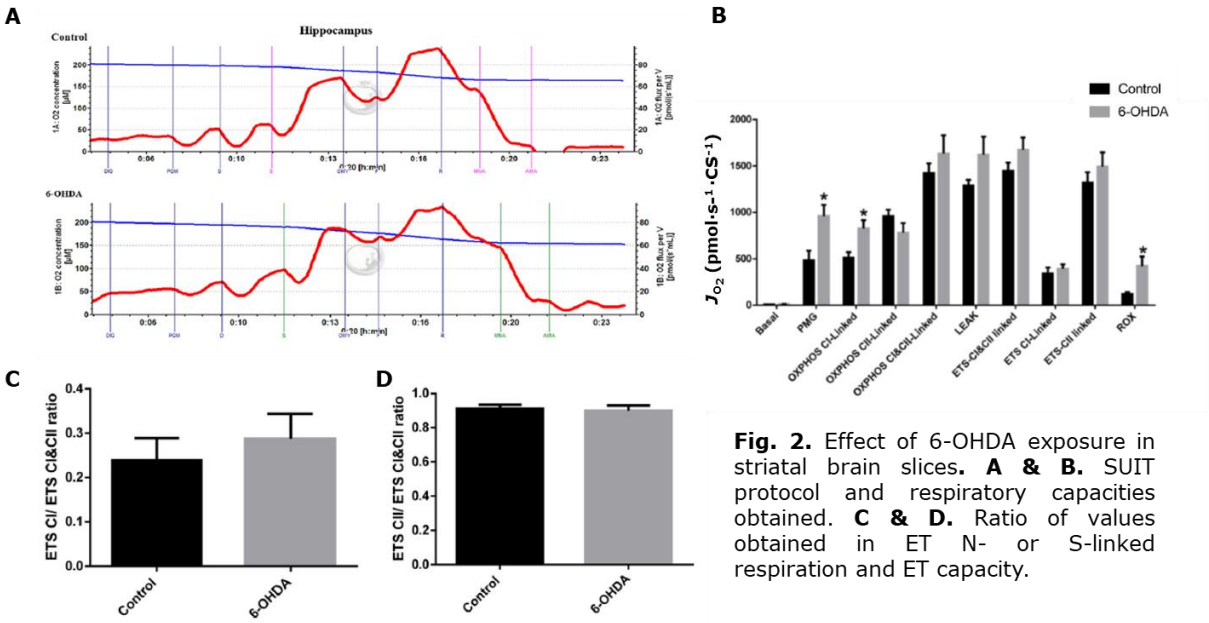


Fig. 2. Effect of 6-OHDA exposure in striatal brain slices**. A & B.** SUIT protocol and respiratory capacities obtained. **C & D.** Ratio of values obtained in ET N- or S-linked respiration and ET capacity.

6-OHDA toxicity and mitochondrial bioenergetics in cortex slides

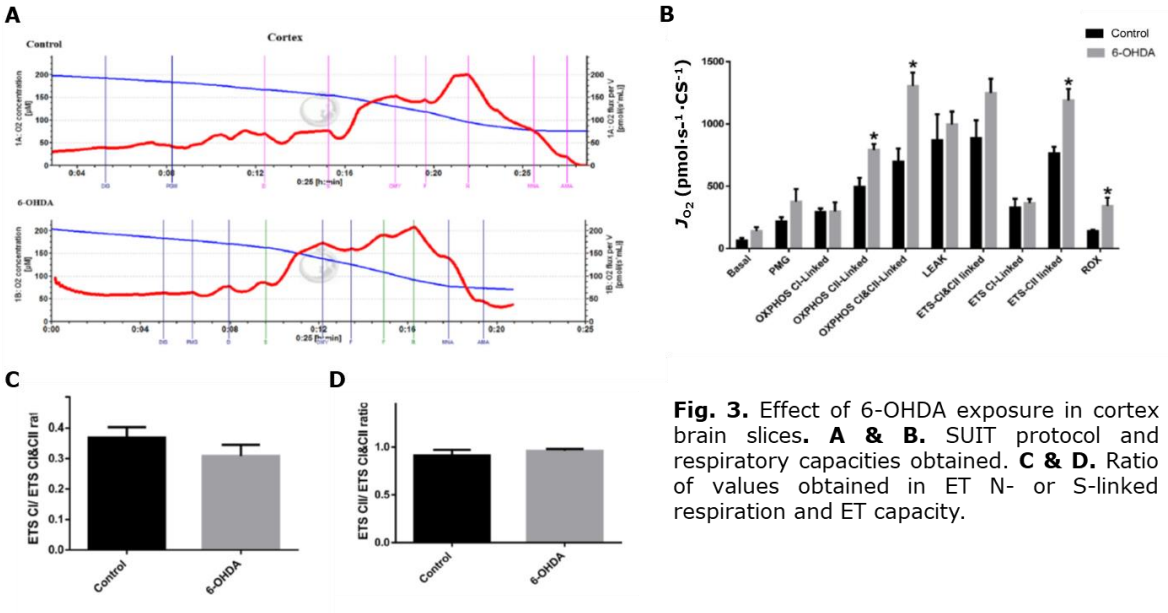
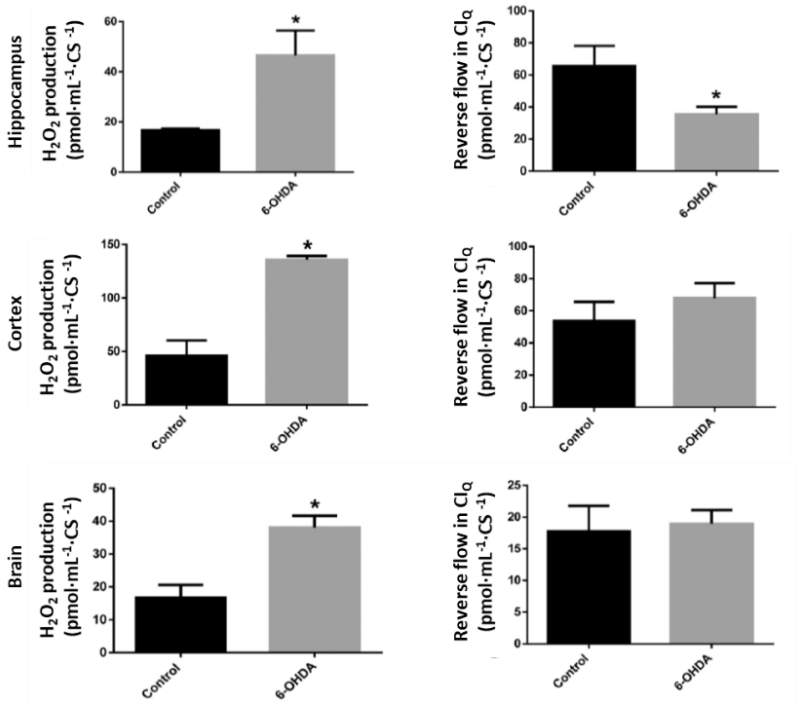


Fig. 3. Effect of 6-OHDA exposure in cortex brain slices**. A & B.** SUIT protocol and respiratory capacities obtained. **C & D.** Ratio of values obtained in ET N- or S-linked respiration and ET capacity.

Mechanism of ROS production in brain slices in presence of 6-OHDA



The toxicity of 6-OHDA over mitochondrial bioenergetics presents a differential response depending on the cerebral region studied

Reference: Gonçalves DF, Courtes AA, Hartmann DD, da Rosa PC, Oliveira DM, Soares FAA, Dalla Corte CL (2018) 6-Hydroxydopamine induces different mitochondrial bioenergetics response in brain regions of rat. Neurotoxicology 70:1-11.

Text slightly modified based on the recommendations of the COST Action MitoEAGLE CA15203. Doi:10.26124/mitofit:190001.v5