

BILATERAL PUPILLOMETRY PLATFORM FOR SMALL ANIMALS

The researchers from CIBER and UCA offers an innovative pupillometry platform for the automatic calculation of the evolution of the diameter of the pupil of small rodents in vivo assays.

The Need

Recent studies suggest that the diameter of the pupil correlates with the neuronal activation of the Locus Coeruleus, brain area involved in pain response.

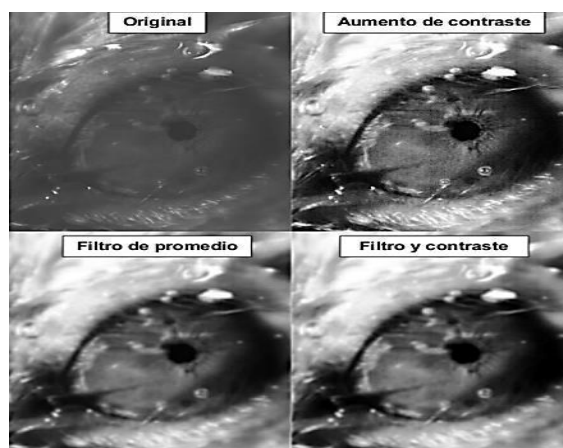
It has been seen in a significant percentage of pupillometry studies that provide an incomplete information on the components used and/or the treatment applied to the signals recorded in the measure of the diameter of the pupil.

The Solution

This new pupillometry platform presents an optimal mechanical structure that provides a maximum flexibility at the disposal of all components. Besides, it allows a correct placement or fixation of the animal having a better focus and a better adaptation to natural variations in the disposition of the animal eyes.

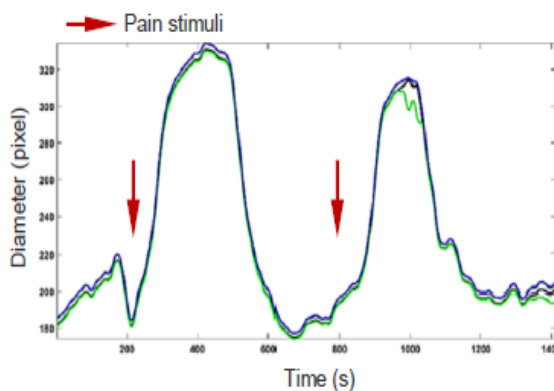
Innovative Aspects

- A greater degree of freedom in the arrangement of the components in the equipment.
- Fully automated, time resolved recording of pupil diameter in anaesthetized animals or awake animals.
- Sensitivity for monitoring sensorial signals involving the locus coeruleus.



Intellectual Property:

- Model utility application filed (July 12th, 2021)



Aims

Looking for a partner interested in a license and/or a collaboration agreement to develop and exploit this asset.

Contact details