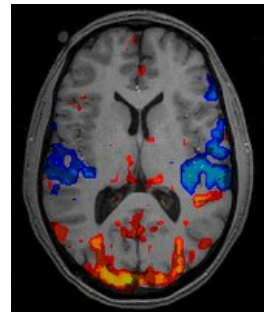


fMRI Analyzer

We perform Functional Neuroimage Studies: Experimental design, activation foci computation, population analysis, correlation among different populational studies, etc.

Experimental Design and processing of brain volumes in Functional Studies

The identification of relationships between different cognitive tasks and various brain areas is based on functional brain image processing, such as fMRI or PET, for example. The methodology often involves complex experimental designs, using various software tools, and proper use of the mathematical foundations for the extraction of reliable results.

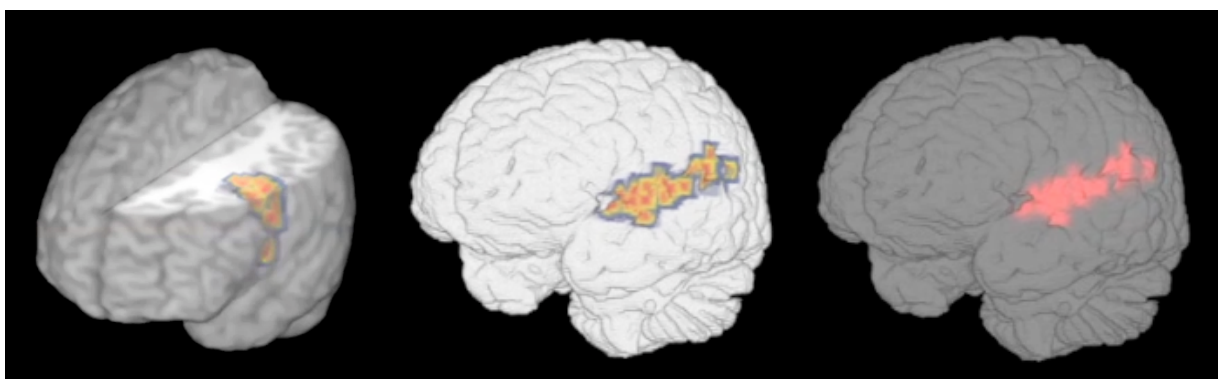


Knowledge and Experience

There exists in the literature a vast amount of scattered information concerning the correlation between cognitive activities and location of associated activation foci. All this information has been analyzed using knowledge extraction techniques, establishing associative rules between function and anatomy of the brain that enhance classical statistical methods when extracting information from the data.

Information Visualization

We can represent the results obtained by any type of display both in 2D (planar or spherical mapping) and 3D. In the following images, three 3D-based representations are shown, from left to right: a frame from a video, the point cloud representation of population activation foci obtained in the experiment and the same information represented as a probability density.



Forget the Processing. Get Results.

BRAIN DYNAMICS

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