

Cuban Center for Neuroscience



Staff: 442 employees (40% in R&D)

Facilities: 10,000 m²

Number of R&D projects: 30

Commercial portfolio: 35 products & services

Exterior scheme for commercialization:



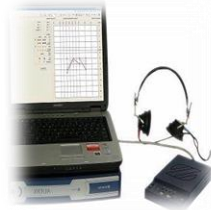
Main products, projects & services



Medicid 5



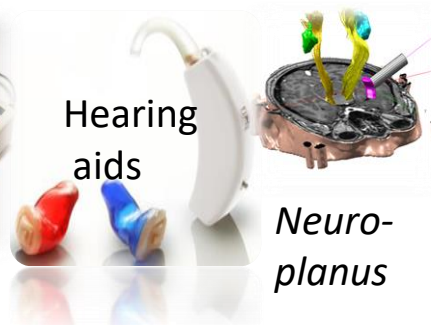
Neuronica-5



Audix-5



INFANTIX



Hearing aids

Neuroplanus

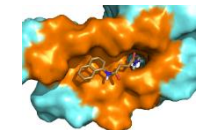


NeuroGer

Optima



Cuban Brain Mapping project

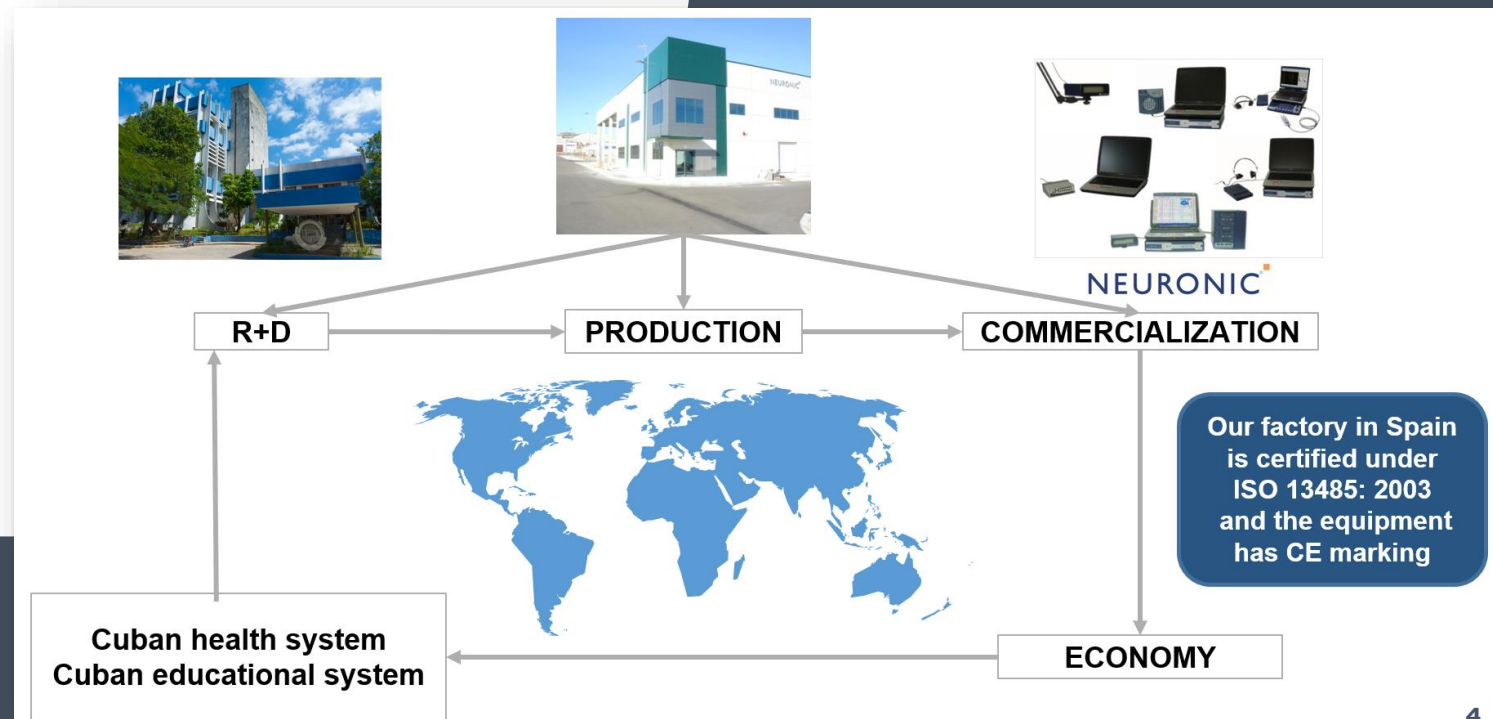


Amylovis



MRI

“ We are a High-Tech Company dedicated to conducting research, developing products, producing, marketing, importing and exporting medical equipment, computer applications, technologies, services and intangibles, as well as scientific-technical projects and services in the field of neuroscience and other related medical and social areas.



Areas of special interest

Search of novel biomarkers and diagnostic approaches for Alzheimer's disease

Search of therapeutical molecules for Alzheimer's disease

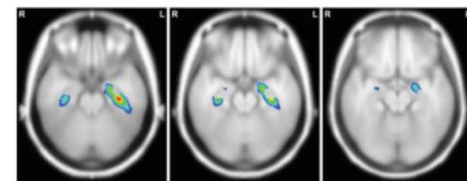
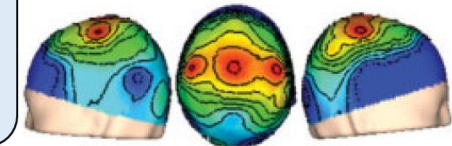
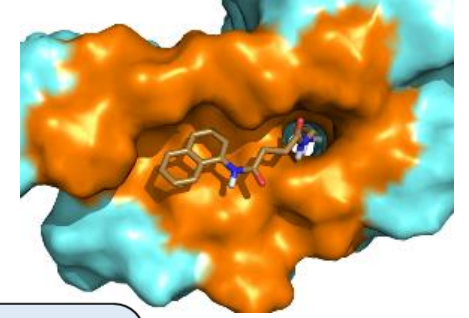
Development of technologies for the management of aging, and neurodevelopmental disorders

Development of neuroinformatic-based methods for the analysis of EEG and neuroimaging data

Development of technologies for the management of hearing deficits

Development of neurostimulation devices for depression and other psychiatric disorders

Development of medical devices in response to COVID-19

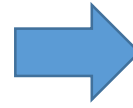


Attention to Hearing Disabilities

DETECTION



Auditory and visual screening



INFANTIX Neonatal Screening System for the early auditory and visual screening

DIAGNOSIS

Clinical Audiometer



Middle Ear Analyzers



Audiometric chamber



Clinical Electroaudiometer



AUDIX system: the first commercially available device with the auditory steady state technique

AUDIOMETRIC CHARACTERIZATION

TREATMENT



Digital manufacturing
•3D scanner
•3D printer



Hearing Aids



Audioanalyzer (audio-analyzer)



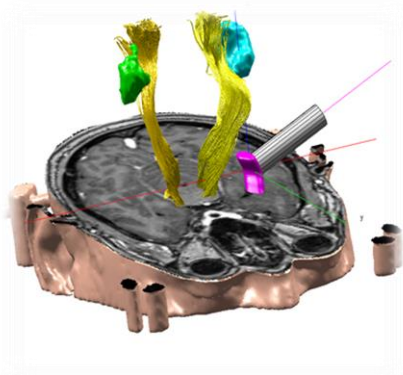
Cochlear implants (in development)

Other devices and softwares



Transcutaneous vagus nerve electrical stimulator for the treatment of epilepsy (open-loop).

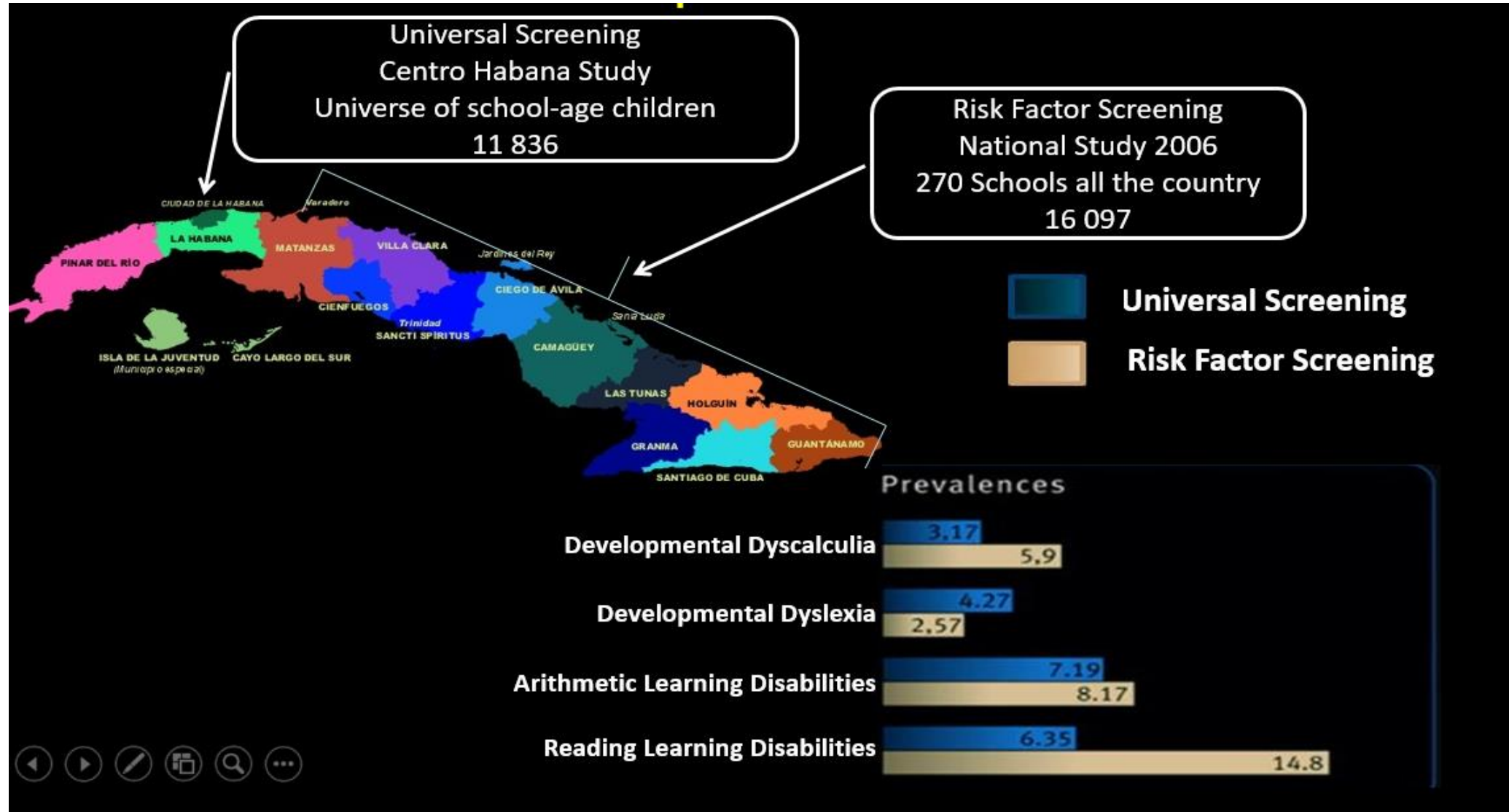
Closed-loop system under development to detect seizures early and apply preventive stimulation.



Neurointerventional platform (neuroplanus)

- *Surgical planning*
- *Deep brain stimulation planning*
- *Transcranial magnetic stimulation planning*

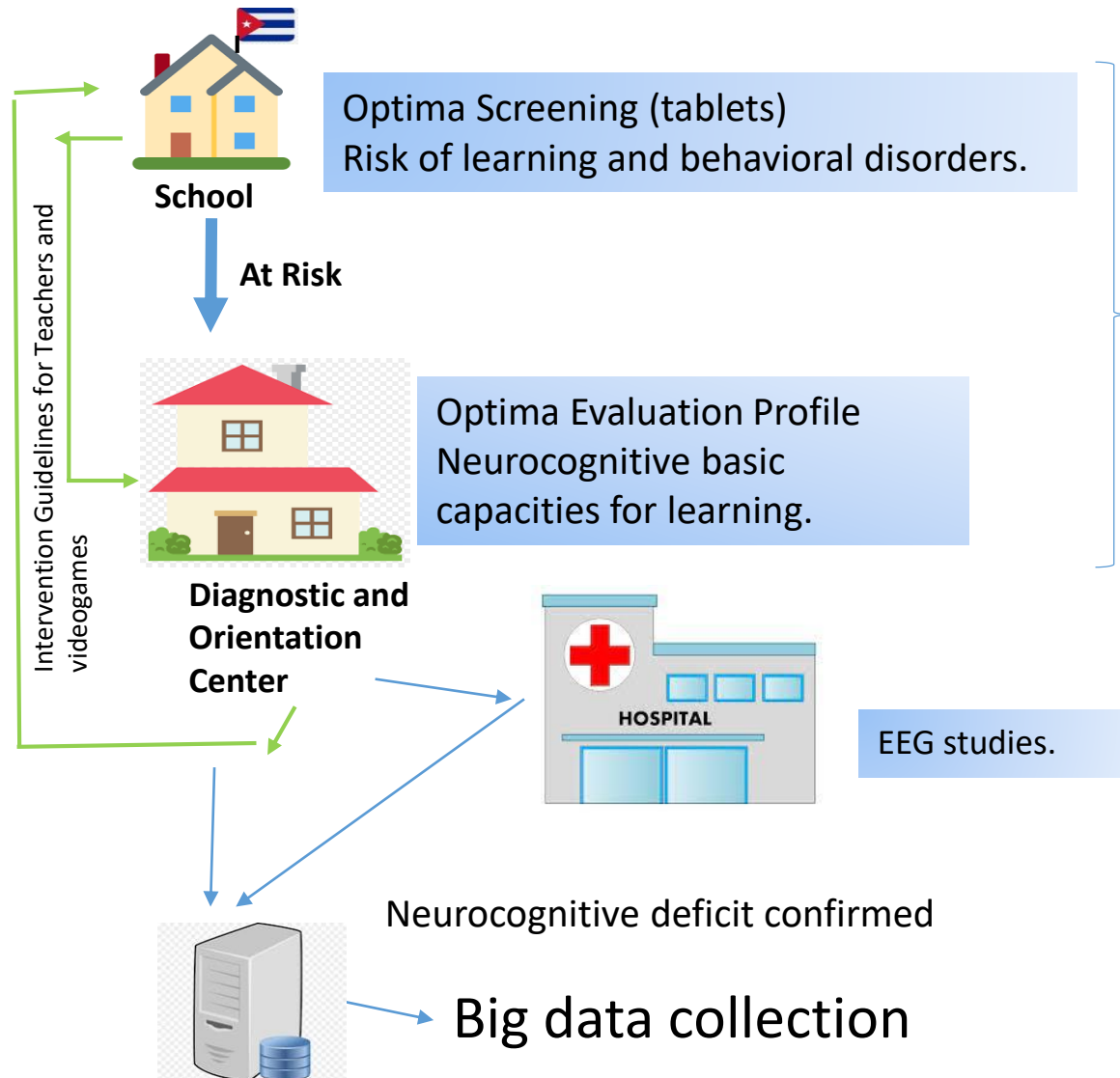
CNEURO has contributed to the screening of developmental disorders in Cuban children and has introduced technologies in the Cuban educational system



Joint Neuroscience – Education Projects



Follow up study of neurocognitive profiles of all children at risk of learning and behavioral disorders along the country.

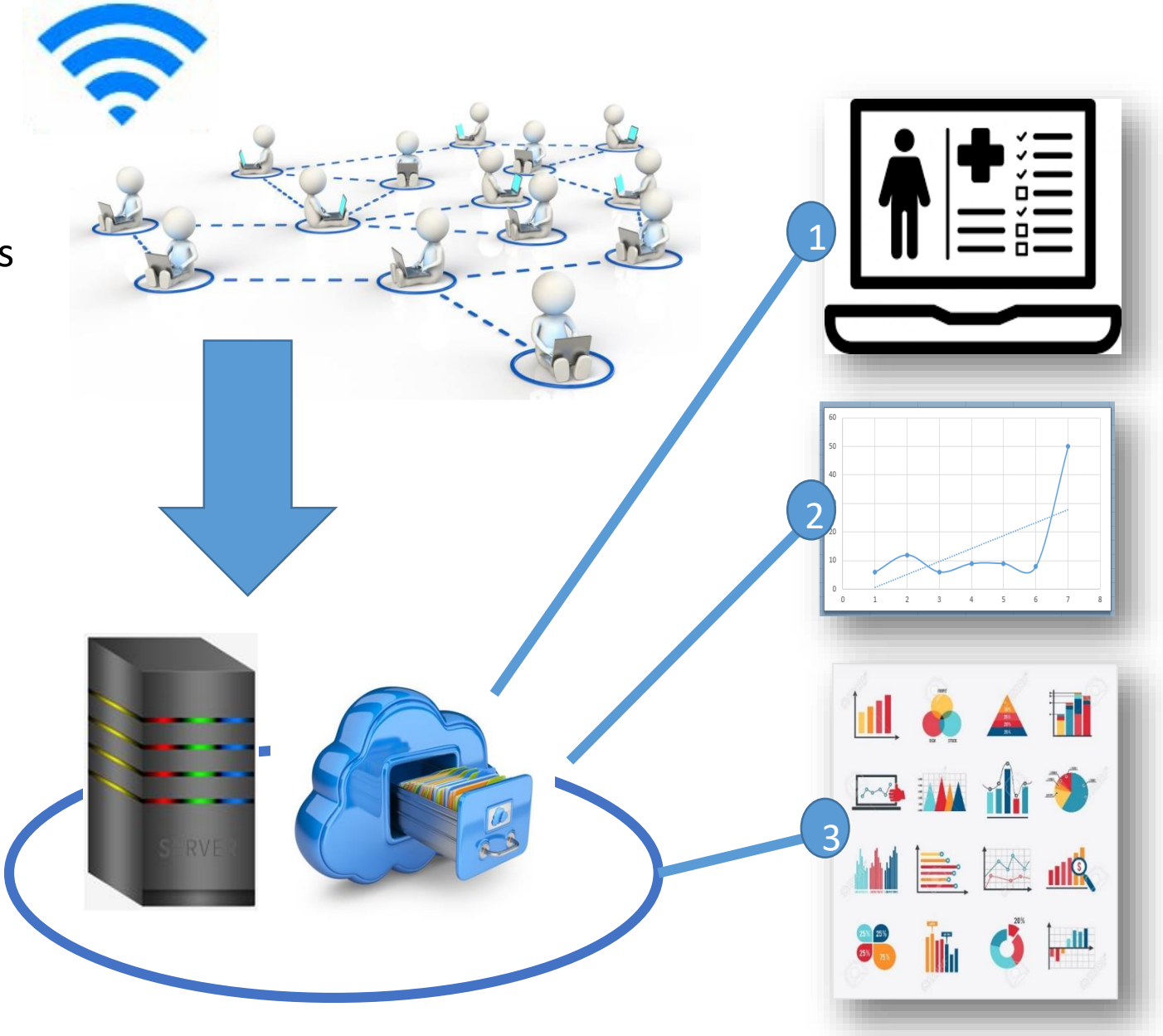


Rehabilitation of learning and behavioral disorders using video games (Clinical trials).



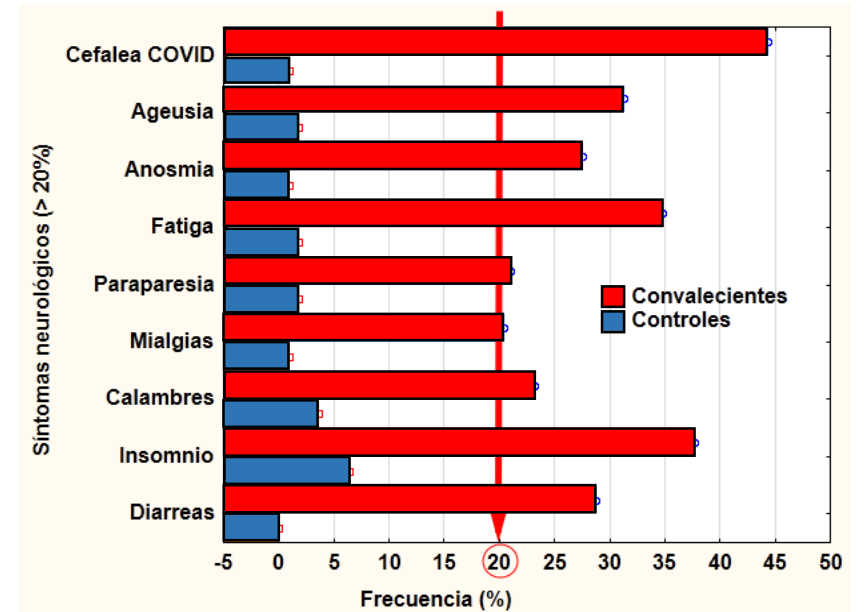
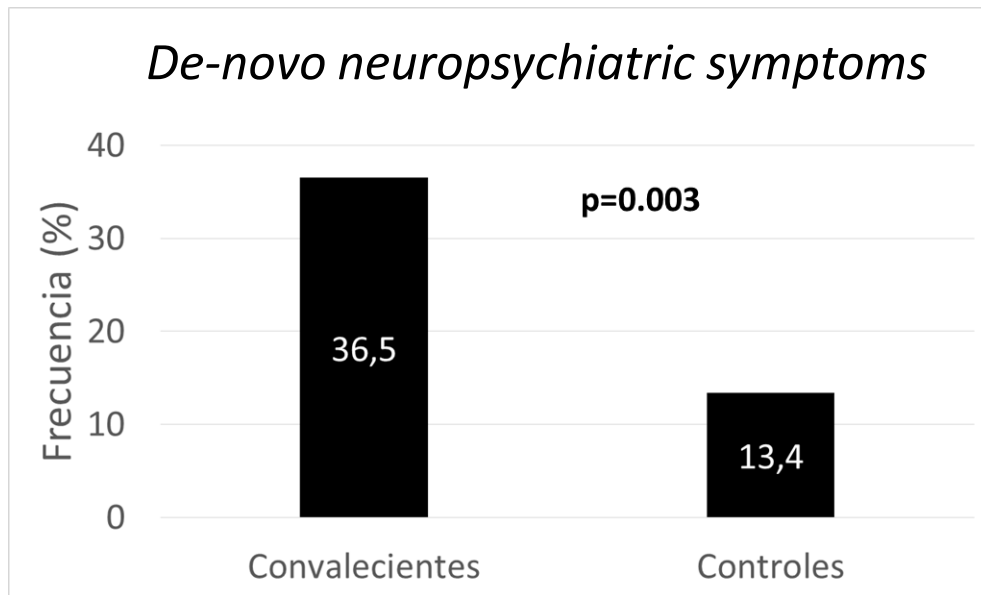
SYSTEM FOR THE CARE AND MONITORING OF CHILD DEVELOPMENT

- Neonatology services
- Childcare consultations
- Biochemistry services
- Child psychiatry consultations
- Early childhood educational institutions

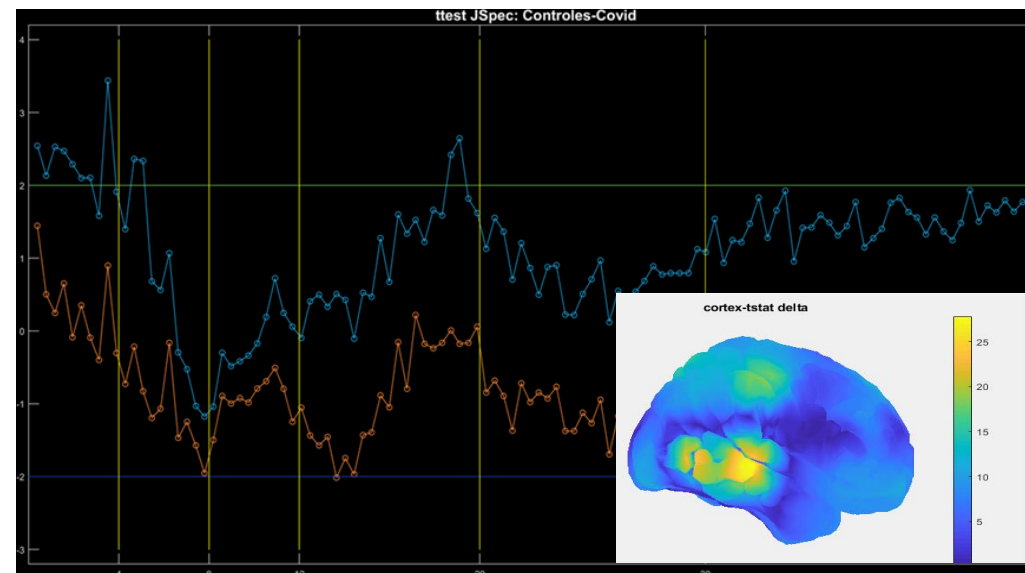


Evaluation of brain disorders caused by COVID-19

Neurological sequelae



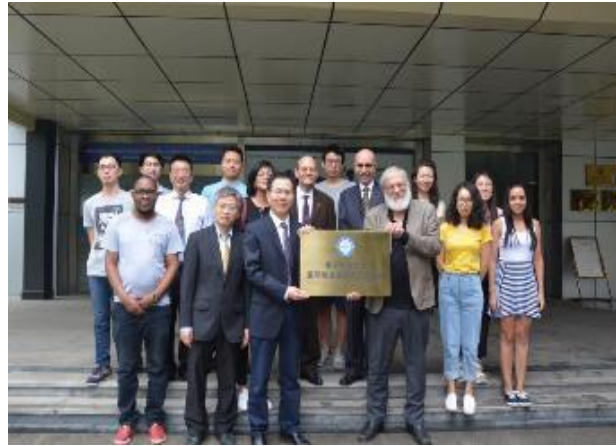
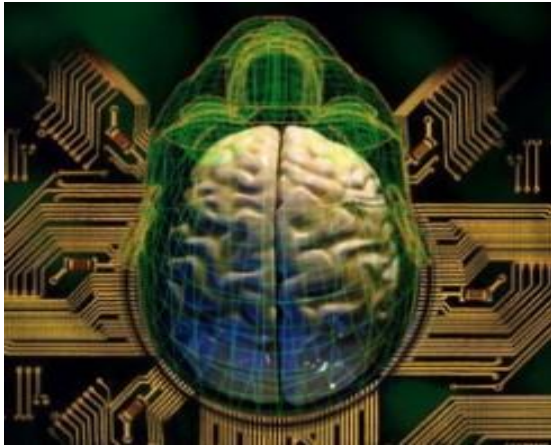
Electroencephalographic abnormalities (EEG)



International projections of CNEURO

CNEURO is member of:

- Global Brain Consortium
- International Brain Initiative
- Cuba-China-Canada Brain Mapping Project



Joint China-Cuba Laboratory for Neurotechnology

International collaboration with:

- Maastricht University, Netherland
- Aachen University, Germany
- Oxford University, UK
- University College London, UK
- Quebec University, Canada
- Antioquia University, Colombia
- Queensland University, Australia
- UESTC, China