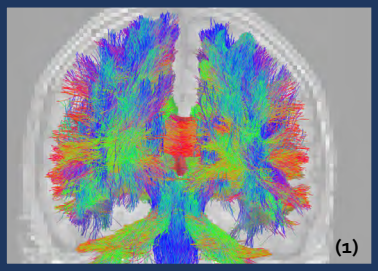
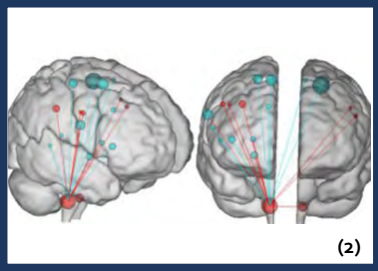

(1)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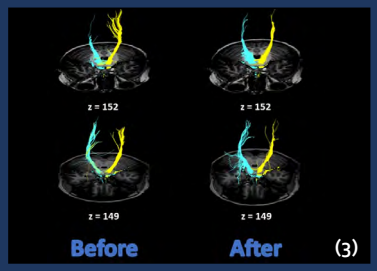

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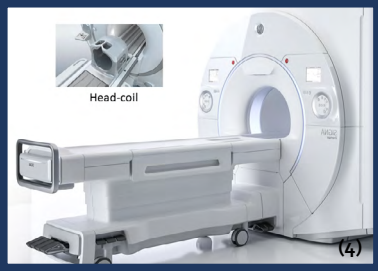
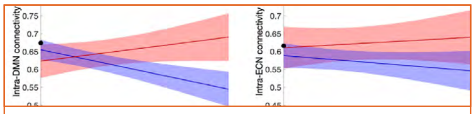


(4)

N I M A : Neuroimaging platform

WHAT WE OFFER : services and expertise

- **Methodological, statistical and technical support at all stages of human neuroscience studies using Magnetic resonance imaging (MRI)**
- **Training and certification of users who wish to carry out MRI acquisitions independently (in collaboration with the radiology department of Saint-Luc University Hospital)**
- **Support for development of MRI-compatible devices and testing of new hardware**

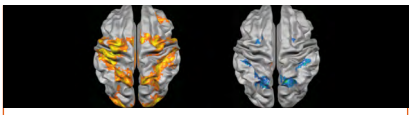


Consulting services

- Scientific monitoring of methodological, statistical and technical advances
- Maintenance and development of research equipment for MRI
- Setting up and maintaining an MRI data management system

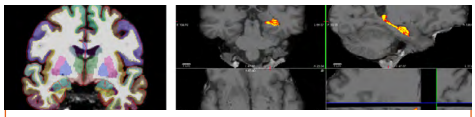
Main equipment

- 3T MRI SIGNA™ Premier (General Electric Company) equipped with a 48-channel head antenna
- MRI-compatible hardware for stimulation (visual: 32-inch full HD LCD screen; auditory: frequency range: 8 Hz to 35 kHz; tactile; olfactory, etc.) and recording of participants' behavioral and/or physiological responses



Functional neuroimaging

- BOLD contrast with task or at rest
- Pseudo-continuous arterial spin labelling (pcASL)
- Functional brain connectivity
- Spectroscopy (H-MRS) and functional spectroscopy (fMRS)



Morphometric brain imaging

- Brain volumetry
- Cortical thickness
- Cortical curvature
- Mapping of brain lesions
- Brain myelin mapping

Diffusion imaging

- White matter microstructure
- Visualization of the brain white matter tracts and structural brain connectivity

CONTACT

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(1) Reconstruction of brain white matter fibres – (2) Changes in resting-state brain connectivity after voice therapy from the voice motor/sensitive brainstem nuclei (3) Corticospinal tract changes in hemiplegic patients following motor rehabilitation therapy – (4) 3T MRI model SIGNA™ Premier (General Electric Company) and 48-channel head antenna

NIMA NEUROIMAGING PLATFORM

UCLouvain

Bâtiment Pasteur
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1200 Woluwe-Saint-Lambert
Belgium

Soutenu par
Le Brabant wallon
Avec le soutien de la Wallonie