Research in Neuroscience: from the brain-machine interface to mental health

Neuroscience research in Lille is developed on the different sites of our university: CHU, Cité Scientifique, Institut Pasteur de Lille (IPL) and Pont de Bois. While the CHU campus brings together research teams with a significant medical component, the other sites also have their own specificities allowing translational research such as artificial intelligence and brain-machine interfaces at the Cité Scientifique, Genetics and Public Health at the IPL or human and social sciences at Pont de Bois.

Neuroscience, a very transversal discipline, is an opportunity to associate medical activity and research. Even if psychiatry and neurology separated in 1968, these medical disciplines belong to the neuroscience field and benefit from the same progress. As you have seen, the prefix neuro- is everywhere and so do neuroscience: clinical neuroscience, computational neuroscience, neurobiology, neurobehavioural, neuroeducation, neuroendocrinology, neuroethics, neurofeedback, neuroimaging, neuroimmunology, neurology, neuromarketing, neuropathology, neuroeducation, neuropharmacology, neuropsychology, neuroradiology, neurorobotics, neurosexuality, neurosocial, neurostimulation, neuroticism...

Through a few examples, we will explore Neuroscience
- Seeing the brain, understanding its functioning and modifying it (functional explorations or pharmacology)
- Understanding molecular, cellular and extrinsic actors responsible for neurological diseases in order to identify diagnostic and therapeutic targets.
- Understanding the links between chronic pathologies (Autoimmunity, Cancer, Diabetes, hypertension, IBD, Obesity, etc.) and neurological diseases.
- Towards a neuro-society?

See you on February 4, 2021 - 6:15 pm