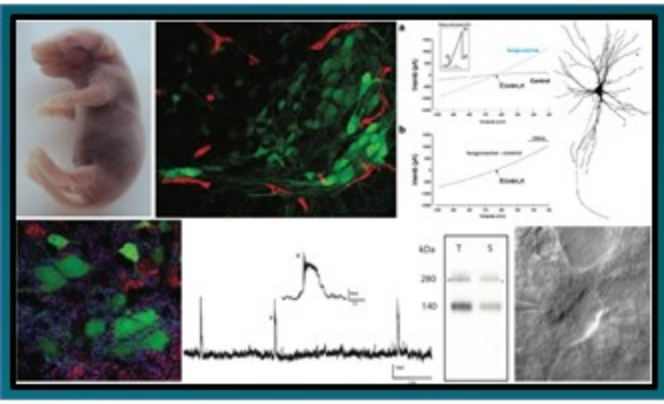
Lille Neuroscience & Cognition



09 Octobre 2023

11h

Bâtiment Biserte

(Salle de Réunion)

Early deficits in ALS motor networks

Dr. Pascal Branchereau

Team MotoPSyn Bordeaux Neurocampus

University of Bordeaux, CNRS, Bordeaux Biologie Santé, INCIA, UMR 5287, France

The objective of our Research group is to better understand the mechanisms involved in the construction and maturation of mammal motor networks. We focus our efforts on: 1) understanding how early spinal motor networks generate a recurrent and powerful spontaneous activity that is necessary for developmental processes, 2) identifying cellular and molecular mechanisms involved in early alterations observed in embryonic spinal motor networks from two mouse models of the neurodegenerative disease amyotrophic lateral sclerosis (ALS). In this seminar I will focus more on data showing that the inhibitory synaptic system is altered in prenatal (E17.5) lumbar spinal motoneurons of the $SOD1^{G93A}$ ALS mouse model, demonstrating that at least SOD1 familial ALS may be considered as a neurodevelopmental disease.

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