Neurophysiology Lecture

Monday, 18 March 2024
10.00 -11.00 o’clock
Inselspital, Kursraum Neurologie
OPO E 236

Early-life adversity and its impact on cortical neuroplasticity in humans: a role for glial cells?

Prof. Dr. Naguib Mechawar
Department of Psychiatry, McGill University

This talk will present recent data on the lasting impact of child abuse on the ventromedial prefrontal cortex. More specifically, perineuronal nets surrounding parvalbumin interneurons in this cortical area will be shown to be increased in number and maturity in post-mortem brain samples from adults with a history of child abuse. Unpublished data will also be presented supporting a role for glial cells in this phenomenon. Overall, these cellular and molecular changes will be discussed in the context of the increased vulnerability to psychopathologies and suicide displayed by victims of early-life adversity.

Host: Prof. Antoine Adamantidis, PhD