

Prefrontal executive function and psychopathology: Insights from functional near-infrared spectroscopy studies

Date & time

23 May 2023 (Tue)
11:00 am - 12:00 pm



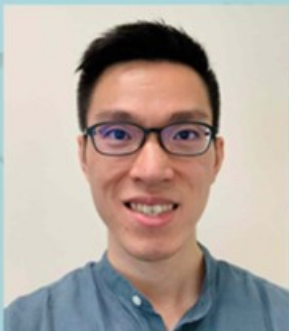
Hybrid:

Online - conducted via Zoom, &
Onsite - D1-G/F-03, EdUHK Tai Po
Campus

Abstract

Executive function (EF), primarily mediated by prefrontal cortex (PFC) networks, is crucial for the attainment of goals. Executive dysfunction and altered PFC functioning have been found across mental disorders. However, whether different psychopathologies are associated with similar or different PFC activation signatures during EF performance remains poorly known. In this seminar, I will present some functional near-infrared spectroscopy studies that probed PFC activation during two popular EF tasks in common psychopathologies. Altogether, the literature suggests some similarities and differences in PFC activation patterns across mental disorders. The transdiagnostic approach seems promising in understanding the shared and differential EF deficits in psychopathology.

Speaker



Dr Yeung is a cognitive neuroscientist and neuropsychologist interested in the functions of the human prefrontal cortex, particularly goal-directed behaviors. His research focuses on understanding the cognitive, biological, developmental, and clinical aspects of executive functions. Dr Yeung uses a variety of neuroscience techniques in his research, including functional near-infrared spectroscopy (fNIRS) and electroencephalography (EEG).

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