

176th WPI-IIIS Seminar

Medial frontal cortex and the regulation of mood and motivation for social behavior

The medial frontal cortex (MFC), including the anterior cingulate cortex, appears to have a unique role in integrating cognitive and emotional information. Dorsal MFC has a strong connection with the prefrontal cortex, whereas ventral MFC has strong connections with nucleus accumbens and amygdala. I will make a brief overview of our recent study on the anatomy and function of the monkey MFC, using viral vectors for neurotracing and transcranial magnetic stimulation (TMS) for functional interventions, with an aim to reveal its role in the regulation of mood and motivation for social behavior. I will also introduce our new R&D project aiming to integrate neural monitoring for mind sensing and virtual reality and robotics for behavioral interventions, for the establishment of communication aids, together with its ethical, legal and social implications (ELSI).



Dr. Ken-Ichiro Tsutsui

Tohoku University Graduate School
of Life Sciences

Date: **Tuesday, February 28, 2023**

Time: **10:00 – 11:00**

Venue: **1F Auditorium, IIIS Building**

Register now! (deadline February 27)

<https://forms.gle/RXwbkWtVqRXoaU7n9>

***Seminar information will be sent
to registered participants**



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