Mari Imai, J Neurol Neurophysiol 2016, 7:6(Suppl)
http://dx.doi.org/10.4172/2155-9562.C1.038

A study of creativity using NIRS as seen from the functional brain imaging point of view

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Using the near infra-red spectroscopy equipment (NIRS), you inspect the brain activity when drawing. The subject was a right-handed adult woman. Then, there was an experiment using the same task in the same way as earlier with men. The result related to the creative work, as well as everyday life for a female described above, is different than for a right-handed adult male. Because of that, before the starting of the experiment, subject was confused, but after the experiment started, the subject relaxed, focused and enjoyed themselves. This picture drawing task, with its assignments, is performed to activate the cerebral adrenal cortex so that its inspection can be conducted. As a result of these drawings, the production of deoxy-Hb increased compared to oxy-Hb. It was then experimented using the same task in the same way as earlier for the male. The creative work in the same way as everyday life with the female described above is the adult male of the right-handed did not engage. In this case, the increase of deoxy-Hb rather than oxy-Hb was found. This study is one consideration at the time of artistic expression using NIRS. This difference is therefore including whether seemingly due to is the one sex at individual differences; there is a need for further ongoing research.

Biography

Mari Imai completed PhD program at Ritsumeikan University with honors. He is Associate Professor at Shitennoji University. He has published more than 10 academic and non-academic books.

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