

Functional near infrared (fNIR) spectroscopy is a field-deployable non-invasive optical brain monitoring technology that provides a measure of cerebral hemodynamics within the prefrontal ...

Results: MPOD levels were significantly associated with better global cognition, verbal learning and fluency, recall, processing speed and perceptual speed, whereas serum L + Z was significantly ...

Instead, their findings offer a more nuanced perspective on functional specialization in mid-level vision. The idea that distinct brain regions support specific cognitive functions dates back at ...

Researchers in this field ask how the brain extracts meaningful information from visual input, how this information is represented in the visual cortex, and how visual cortex activity ...

These advanced functions leverage material properties, heterostructure engineering, and device architecture to implement human-like cognitive processes, providing a foundation for ...

Cognitive optical networks aim to introduce cognition on multiple planes (e.g. data plane, control plane, management plane, service plane, application layer) in order to perceive current...

Our objective is to determine whether performance in various neurocognitive tests has an association with itemized retinal nerve fibre layer thickness. Detailed investigation of associations factored in sex ...

Retinal OCT biomarkers are promising as potential indicators for decline in cognitive function. The underlying mechanisms are currently being explored to gain deeper insights into this ...

We sought to elucidate the nature of the brain's modular function by testing the autonomy of the brain's modules and the potential mechanisms underlying their interactions.

Paired with custom-fabricated control modules, the fibers wirelessly deliver light for optogenetics and transfer data for physiological recording. We validate this technology by modulating ...



Optical Module Cognitive Function

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