EEG biomarkers for assessment of dementia

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Dementia is a set of neurodegenerative conditions experienced by about 5-7% of people aged 60+. It is typically assessed by psychometric testing, followed by PET scanning, only after behavioral symptoms are evident. The development of more convenient, cost-effective alternatives to PET would potentially allow for earlier assessment and more effective treatment. In collaboration with clinical staff at Prince of Wales Hospital, we are investigating how normally and pathologically ageing subjects differ in their EEG responses to various cognitive tasks (including the Sternberg task, Stroop task, McGurk Task, and other attention-related tasks) in order to determine EEG biomarkers for early assessment of dementia.