PROPOSITIONS

belonging to the PHD dissertation

FUNCTIONAL MRI STUDIES INTO THE NEUROANATOMICAL BASIS OF EYE MOVEMENTS

譚繼蓮

CAROLINE KAI LIN TAM

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THESIS

1. The smooth pursuit eye movement system and the optokinetic eye movement system can be differentiated with functional MRI using limited lifetime dot stimulation (this thesis).

2. The smooth pursuit eye movement system is involved in tracking a traditional OKR stimulus that consists of a moving pattern of stripes (this thesis).

3. The similar activation patterns observed during smooth pursuit and fixation suppression of the optokinetic reflex suggests that fixation is to be regarded as smooth pursuit of a target without velocity (this thesis).

4. The alleged separate mechanisms for saccadic control of reflexive and voluntary saccade are mainly to be found in the cerebrum, rather than the cerebellum (this thesis).

5. The regions of the cerebellum involved in saccadic eye movements extend the classical oculomotor areas (this thesis).

GENERAL

6. Lyall Watson argued that we will never be able to understand the human brain but it is even questionable if humans will ever understand the non-human brain.

7. Science has shown that the brain is plastic throughout life, and that our behavior is shaped by experience continuously. However, common knowledge tells us that there is one exemption: we do not learn from our own mistakes.

8. IQ is not as important as self-discipline and willingness to work hard.

9. Sometimes it is better to be asleep than being awake. It does more good than nothing.

10. Digital technologies do not only change our way of living and communication but also alternating the synaptic responses of our brain into a "Google" or a "Yahoo" brain.

11. Dutch people often see the foreign side of a half-Dutch child.