Neural Representations of Sensory Discrimination

Propositions

- 1. The hippocampus is important for recollection, but not familiarity (this thesis).
- 2. Hippocampal trajectory dependent neuronal firing occurs less in a non-hip-pocampal dependent, discrete trial, tactile-visual conditional discrimination task than in a continuous spatial alternation task (this thesis).
- 3. The hippocampus mediates both spatial and non-spatial processing (this thesis).
- 4. Whisker responsive receptive fields in cerebellum are larger via mossy fiber inputs than climbing fiber inputs in the anesthetized mouse (this thesis).
- 5. Cerebellar plasticity facilitates a whisker dependent conditional discrimination task (this thesis).
- 6. The cerebellum and hippocampus are brain regions that facilitate learning (this thesis)
- 7. If not thinking enough can be a handicap, so can thinking too much. In both cases, thinking is only the precursor to action, and action the premise from which we base living.
- 8. If we sometimes feel like our heart is in pieces, then our plight is to find those pieces in the people around us.
- 9. Measure everything; a neuron's spiking frequency, a mouse's licks, a plant's pH, the steps from your living room to your bedroom and rational thought with emotion.
- 10. The reciprocal relationship between complex environments and synaptic growth may facilitate questions about the human species for a very long time.
- 11. "That I question the being participates in the transcendence of being"

-Jean-Paul Sartre