

Neuropsychology

PDF

What is it?

- mind and brain
- structure and function
- focus on dysfunction
- clinical
- experimental

In contrast to...

- psychology
- cognitive science
- neuroscience
- cognitive neuroscience
- clinical psychology
- psychiatry
- neurology

Historical context

- earliest forms of neuroscience
- 1860s Broca, Wernicke - localization
- World War II era, A.R. Luria - advanced clinical neuropsychology
- Versus psychology: James (1890), Freud (1890-), Behaviorism (1950s)

Modern Directions in Research

- aging population drives growing demand for disease treatment
 - Alzheimer's
 - Parkinson's
 - stroke recovery
- increasing focus on the brain
 - April 2013: Obama's \$100 million BRAIN initiative
 - MIT has "Brain and Cognitive Sciences", but no psychology department
- neuroscience advances in
 - imaging: PET, fMRI
 - genetics: transgenic vaccines, optogenetics
 - molecular

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