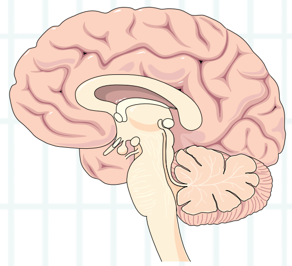
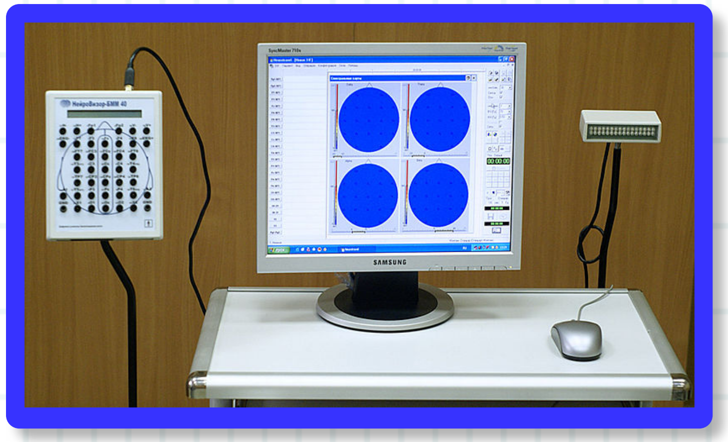
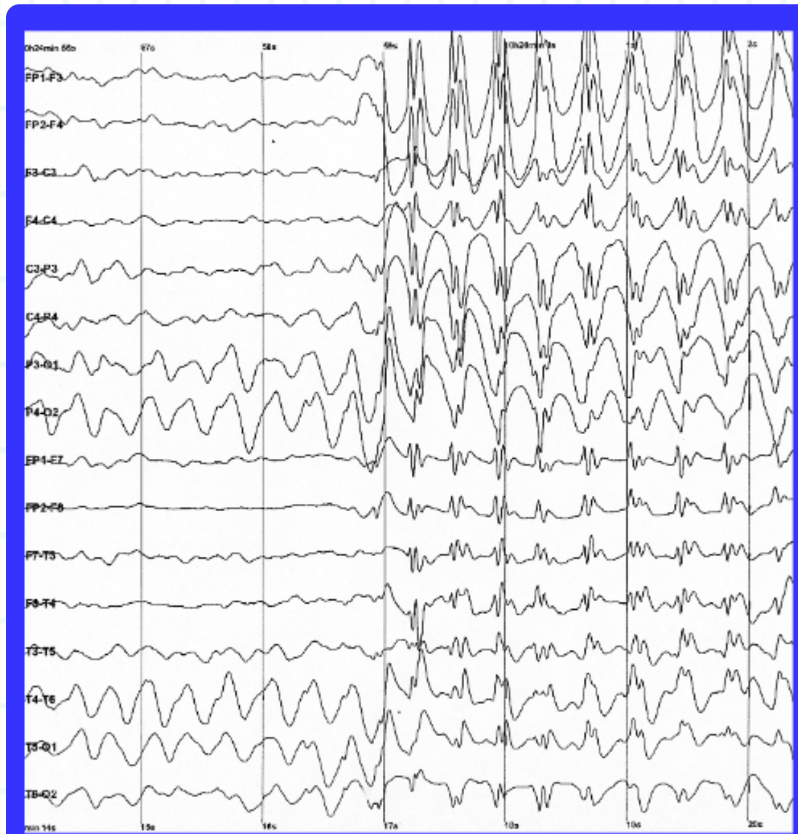
When the brain is "quiet" -- sleeping, resting, sensorimotor systems not being activated -- waveforms are apparent on the EEG. Scientists have been studying these oscillations for years: what they mean, how they reflect function or lack of function, why they change, how they may be modulated.

This map introduces the basic rhythms.



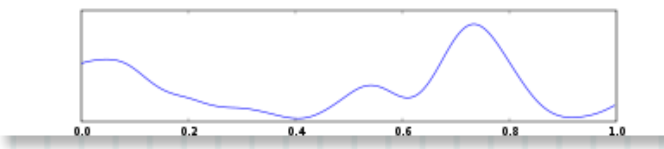




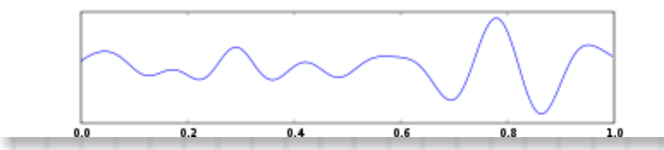
Brief EEG recording. The lines at the top represent function at the front of the brain; those at the bottom represent the back. Lines on the left are seen in a waking state; those at the right show a pattern of epilepsy.

Brain Oscillations: EEG Signals

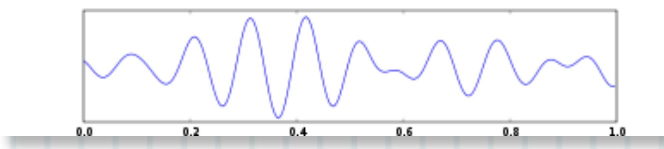
- Delta



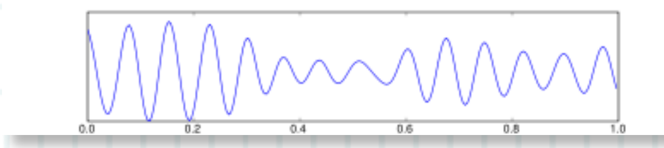
- Theta



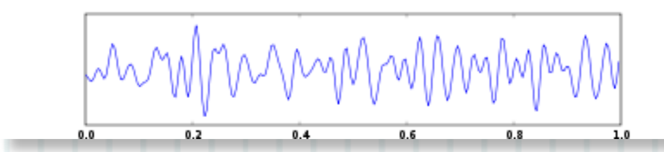
- Alpha



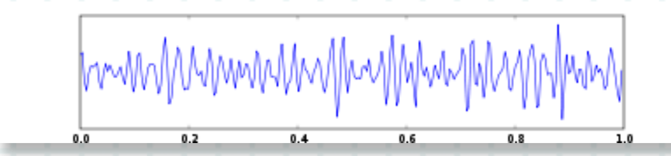
- Mu



- Beta



- Gamma



PPT
Introduction to EEG

Introduction to EEG

Georgy Buszaki Lab: Publications

ONE OF THE MORE FASCINATING ASPECTS OF BRAIN OSCILLATIONS is that they are mathematically related to the other rhythms of the body as well as the rhythms of nature.

Oscillations and Brain

- Consciousness
- Cognition, memory
- Cognitive correlates
- Source of oscillations

Home: Oscillatorium
Newest version this map
Date of this update: 04-09-15