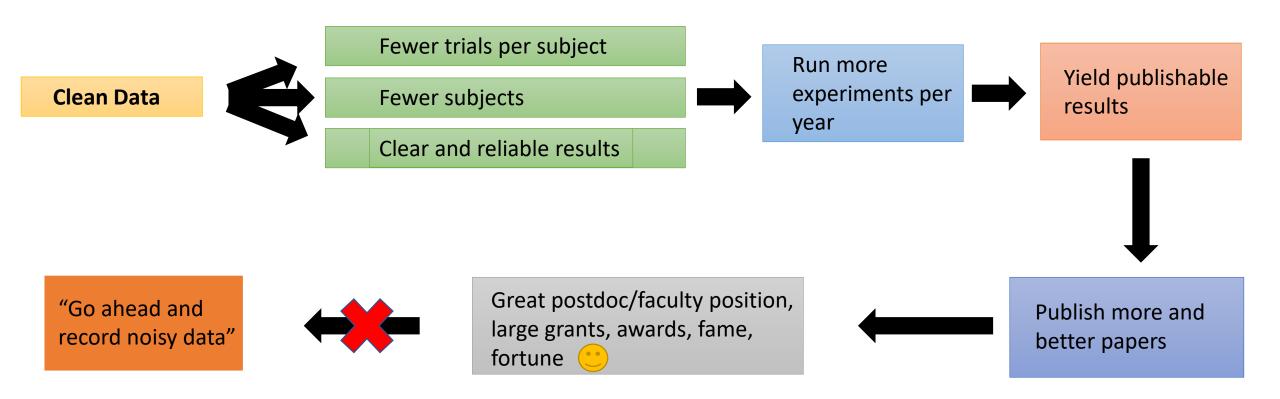
Chapter 5: Basic Principles of ERP Recording Part 1

Clara Rhee

The Importance of Clean Data



The Importance of Clean Data

- Sufficient trials are needed
- Effect of averaging is not linearly proportional
- Reduce the noise before it is picked up by the electrodes
- Use of data-processing techniques
 - Hansen's Axion: There is no substitute for good data

Active, Reference, and Ground

- These three electrodes are combined to provide a single channel of EEG
- Voltage: the potential for current to move from one place to another
- Absolute voltage: potential btw a given active site and the average of the rest of the head
- Problem in the design of EEG amplifier:
 - Ground circuit WILL generate electrical noise

