

Week 3 - Doing fMRI experiments

L03-01. Doing fMRI experiments overview

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Contents of this lecture

We discuss how to conduct fMRI experiments in Cocoan lab with responsibility and expertise

1. Overview of basic procedure for fMRI experiment
2. MRI safety
3. Institutional Review Board (IRB)
4. How to design an experiment & pilot studies
5. How to conduct the actual MRI experiment
6. Precautions during the experiment



1. Overview of basic procedure for fMRI experiment

- Get a sense of experiment by watching and helping other's fMRI experiment as a scan buddy
 - Being a good assistant and good participant could be a first step for being a good experimenter!
- Learn how to use MRI controller and get safety training from CNIR's MR technical staffs
 - You should be a certificated user through the training with technical staffs
- Design a new experiment and make the experimental stimuli (using PTB or PsychoPy)
- Receive IRB training and prepare a IRB cosent form for the new experiment
- Secure the hour of use for MRI scanner
 - Each lab's MRI scanner usage schedule is determined monthly in P.I's center-wise discussion.
- Look for research assistant or scan buddy and start pilot study
- Request the potential subject pool to person in charge of cocoan's subject recruitment
- Conduct the experiment by directly recruiting participants who will participate in each session
- After data collection, pay for participation and back up your fMRI data.

