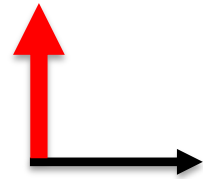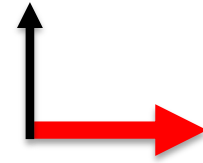# Experiment for Testing a Hypothesis
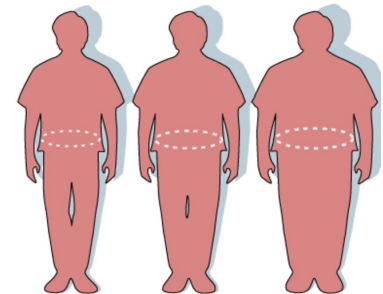
- <u>Independent variable</u>: the probable cause (x-axis)

- <u>Dependent variable</u>: the probably effect (y-axis)

- <u>Negative control</u>: produces a (-) result when a (-) result is expected

- <u>Positive control</u>: produces a (+) result when a (+) result is expected

- <u>Experimental group</u>: group subjected to the novel treatment

- <u>Confounding variables</u>: variables not under observation that can affect the data

- *Manipulative experiments*

- *Natural experiments*

Peer review

paradigm shifts