Source: [KBISOSMasterIndex]

1 | Strong inference notes

#disorganized

- · "All science is equal": a fiction
 - · Attempt at grant getting?
- · "Primary factor in scientific advance is an intellectual one"
 - Fast moving fields have systemic research methods => strong induction, named "strong inference"
- · String inference
 - · Basic inductive reasoning
 - · Basis of the scientific method
 - 1. Hypothesize all alternatives
 - 2. Devise experiments to rule out hypothesis
 - 3. Carry out the experiment
 - 4. Do it again with new subproblem
 - · Not as simple as deduction
 - · However, minimum sequence for knowledge production
 - · Subject to squabbles
 - · Whether to exhaust all possbilites or test simply the reasonable ones
- · Conditional inductive tree
 - 1. Possible causes
 - 2. Crucial experiments
 - 3. Exclusions based on experimentation and adopting what's left
- Molecular biology: user of strong inference

When we make a single hypothesis, we become attached to it

- · Conflict with background and not hypotheses arises in not having multiple possible hypothesis
 - Traditional models of strong induction require the existence of only one true hypothesis out of multiple hypotheses
 - · However, debate about hypothesis could only truly be had if there were multiple