Bettering the Human Condition
A Neurobiological Approach
Work Like an Ant

- Problem:
  Sleep is a waste of time and reduces productivity

- Potential Applications:
  military, college students, etc.

- Solution:
  - Control sleep cycles
  - Long-term alterations (genetic modifications)
  - Continuous chemical treatments
Problem:
Anorexia causes a skewed perception of one’s self and can lead to physical self-destruction.

Solutions:
- Alter pathways in the brain
- Seek out potential chemical imbalances (treatments similar to depression)
- Dual approach: social and biological treatments
**Problem:**
Memory loss associated with diseases such as Alzheimer’s and senile dementia.

**Solutions:**
- Reduce chemical imbalances (change diet)
- Target neurotransmitters and their brain pathways (Ach)
- Genetic screening to prevent/slow the onset of memory loss
- Target proteins in the brain
Hunting For a Cure

Problem:
Huntington’s Disease causes mental and physical deterioration and usually has a late onset.

Solutions:
- Increase genetic testing and counseling
- Genetic manipulation (including epigenetic silencing and control of nucleotide repetition)
Drug Mail

**Problem:**
How to target and deliver drugs, enzymes, etc to specific, long-lived cells.

**Solutions:**
- Develop a delivery mechanism with the use of receptor-studded vesicles.