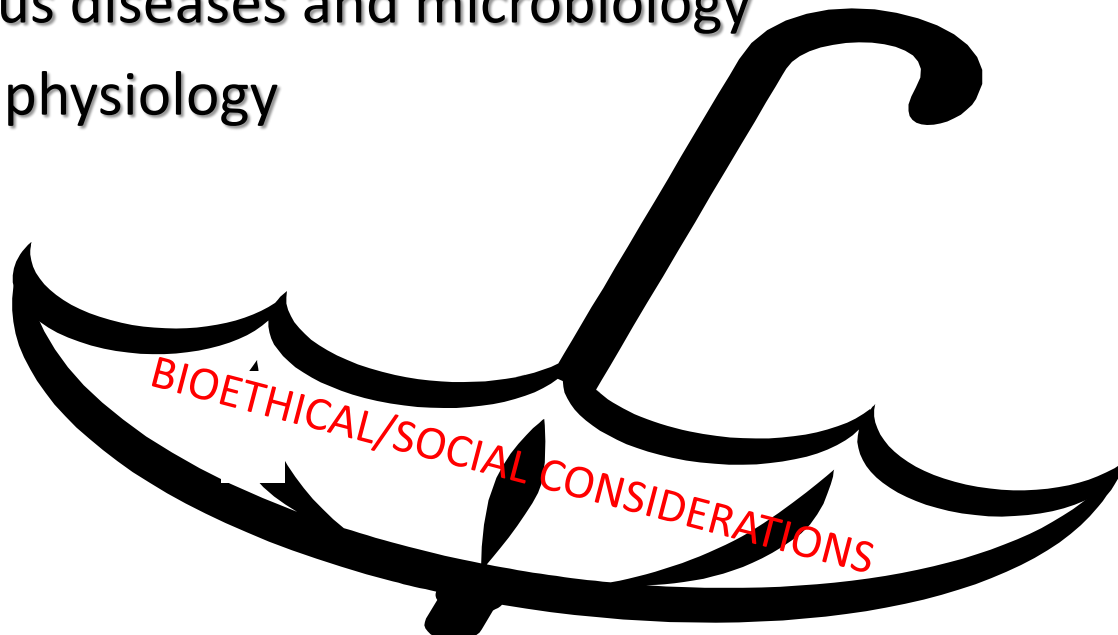
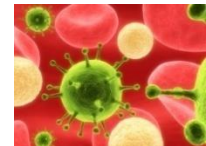


# **Challenges and Controversies in Bioethics, Science, & Engineering: Panel discussion with selected faculty**



# SURVEY OF TOPICS IN BIOSCIENCE

- Neurophysiological processes and behavioral science
- Cancer and novel treatment strategies
- Genomics and bioinformatics
- Stem cell biology and disease treatment prospects
- Advances in engineered biosystems , biodevices, and bioimaging
- Environmental biotechnology
- Infectious diseases and microbiology
- Human physiology



# Neuroengineering

**Currently:** Advances in neural systems and intersecting technologies primarily concerned with perceptual aids such as cochlear implants or vision therapies

**New technologies:** brain-machine interfaces to control computers, exoskeletons, robots, other devices with thought alone.

**Questions:** Can you imagine devices that will enhance and speed up thought or mind-reading devices that project the conscious contents of one's brain onto a screen as if it were a movie?

Should we make our brains accessible to all? Should we make our brains "faster and better?" Could we/should we change creativity and perception?