

BILD 87: Mighty Microbes

This seminar class is located at Room 3880 AP&M Building.

Syllabus:

1. The Diversity of Life on Earth
2. The Three Laws of Biology
3. Molecular Evolution: From Darwin to Metagenomics
4. Cell Polarity/ Cytoskeleton
5. Bacterial Motility
6. Chemotaxis
7. Sensing Physical Forces
8. Cell Recognition/Bacterial Adhesins
9. Bacterial Energetics
10. Bacterial Differentiation
11. Bacterial Organelles
12. Protein Machines & “Organelles”
 1. Proteosomes
 2. Chaperonins
 3. Metabolomes
13. Protein Secretion Systems
14. Quorum Sensing
15. Bioelectricity; Nanowires
16. Bacterial Biological Warfare
17. Circadian Rhythms
18. Photosynthesis and Bacteriorhodopsin
19. Persistence
20. Metastability & Stochasticity