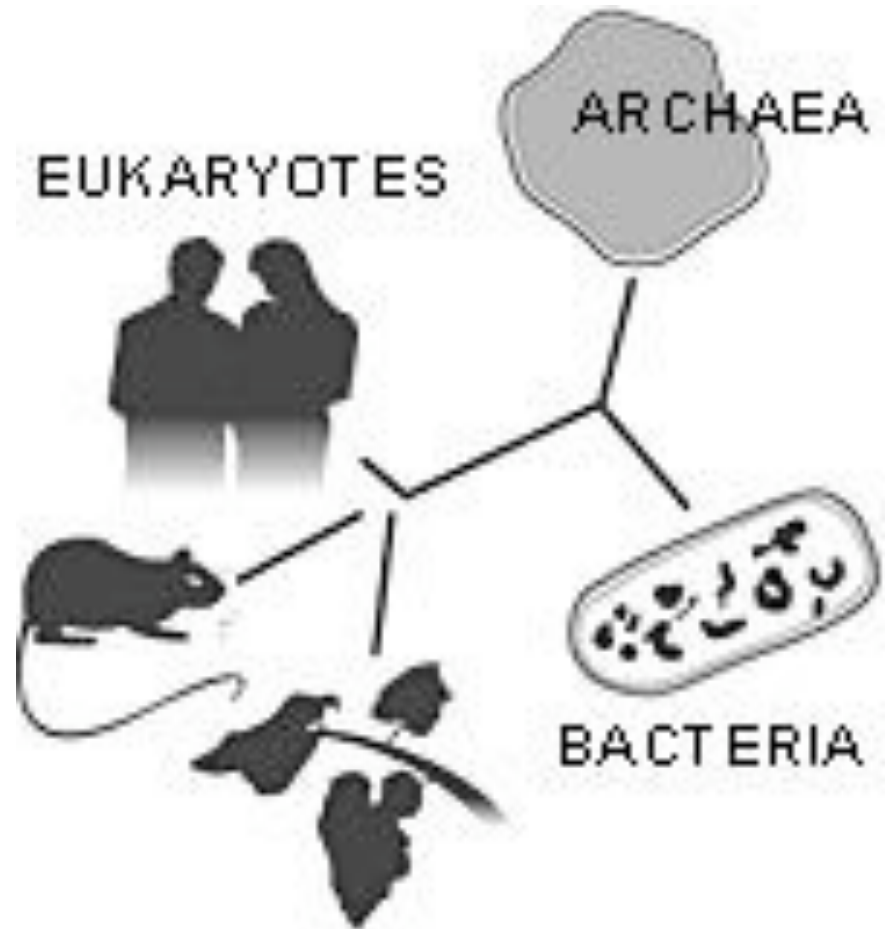


IB104 - Lecture 1 - Introduction

1. Introduce myself, Patrick Halbig, and the TAs.
2. Survey class for major and year, and when last had biology.
3. Course objectives.
4. Proficiency exam, Wednesday September 2 at 6PM.
5. Website is <http://www.life.uiuc.edu/ib/104>
6. Lecture syllabus is the handout.
7. Textbook - Starr, Taggart, Evers & Starr - Biology, The Unity and Diversity of Life - 12th edition
8. Lab manual -IB104 Laboratory Exercises-Animal Biology-Fall 2009
9. Labs start Monday 31 August - Room 309 NHB.
10. Lab includes dissection of a vertebrate animal.
11. Exams, especially final exam on **Friday December 18 at 8AM!**
12. Grades.
13. Handicapped students.
14. My contact - phone 333-0489, email hughrobe@uiuc.edu
15. Expectations of us and you.

Kingdom	Cell structure	Cell	Trophic mode	Examples
Archaeobacteria	Prokaryotic	Single	Autotrophs Heterotrophs	Methanogens Halophiles Thermoacidophiles
Eubacteria	Prokaryotic	Single	Autotrophs Heterotrophs	Gram+ e.g. Strep Purple, E. coli Cyanobacteria
Protista	Eukaryotic	Single	Autotrophs Heterotrophs	amoebae, sporozoans, ciliates, slime molds diatoms
Plantae	Eukaryotic	Multi	Autotrophs	algae, mosses, ferns gymnosperms, angiosperms
Fungi	Eukaryotic	Multi	Heterotrophs	mushrooms, yeasts, molds
Animalia	Eukaryotic	Multi	Heterotrophs	not just mammals, but also birds, reptiles, amphibians, fish, all the invertebrates, eg. insects, molluscs, annelids, echinoderms, worms of various kinds, tapeworms, flukes, platyhelminthes, hydra, jellyfish, sponges.



Carl Woese (Crafford Prize in 2003) and the three domains of life