CELL & MOLECULAR BIOLOGY

Cell and molecular biology concerns the organization and control of cell function. The faculty in this field have interests in molecular genetics, developmental biology, molecular evolution, microbiology/immunology, computational systems biology, molecular toxicology and genomics.

Genetics (PCB 3063) and Cell Biology (PCB 3023) as well as either of the associated labs serve as prerequisites for most of the upper level (4000) courses and should be taken as early as possible following Biology I/II & General Chemistry I/II. This allows the highest degree of flexibility when selecting courses in future semesters.

Students preparing for careers in research, medicine, teaching, or the allied health fields are advised to select courses from the following:

3000 level
- Introductory Biochemistry BCH 3023
- Medical Botany BOT 3650
- General Microbiology MCB 3020C
- Cell Biology PCB 3023
- Genetics PCB 3063

4000 level
- Human Genetics BSC 4933*
- Mol Bio of the Cell BSC 4933*
- Mol Bio of the Gene BSC 4933*
- Bioinformatics BSC 4933*
- Molecular Microbiology BSC 4933*
- Industrial Microbiology BSC 4933*
- Determinative Bacteriology MCB 4115
- Virology MCB 4502
- Microbial Physiology & Genetics PCB 4404
- Principles of Immunology PCB 4235
- Histology ZOO 4753

5000 level (many of these courses are open to undergraduates)
- Cellular Microbiology BSC 5931*
- Genetic Engineering BSC 5931*
- Molecular Phylogenetics BSC 5931*
- Genomics BSC 5931*
- Medical Mycology MCB 5615
- Developmental Biology PCB 5253
- Molecular Genetics PCB 5525
- Principles of Neuroscience PCB 5845
- Public Health & Pathogenic Micro PCB 5206

(*These courses have been taught as Special Topics but will be assigned specific course numbers by Spring 2008)

Faculty who teach courses in cell, molecular and microbiology:
If you would like additional information concerning any of the courses listed above, you may contact the following faculty who routinely teach them. Refer to the Faculty Directory at biology.usf.edu.

My Lien Dao, James Garey, Valerie J Harwood, Brian Livingston, Jessica Moore, Richard, Pollenz, Kristina Schmidt, Kathleen (KT) Scott, Lindsey Shaw. Degen Wang