Course Information

Classroom
Life Sciences Computing Facility classroom
(Room 1805, Psychology-East)
Classes will meet here.

Time
AM Section: T, TH 9am-11:50am
PM Section: T, TH 1pm-3:50pm
In addition, ***several experiments require work in the lab during other days/times.***

Laboratory
2239 Biological Sciences
Instructional Facility (BSIF)

Instructor
Thomas Weimbs, PhD
Associate Professor
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LSB Rm 2113
Phone: x4144
Office Hours: by appointment

Staff
Tanja Stoyan, PhD
Staff Coordinator
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Class Website
http://www.lifesci.ucsb.edu/mcdb/labs/weimbs/classes/

Teaching Assistants
Jeff Talbot (AM section)
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Jeff Bailey (PM section)
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Teaching Interns
Stephanie Khairallah (AM section)
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TA Office Hours: By appointment

Text book: *Molecular Biology of the Cell* by Bruce Alberts et al., 5th Edition, Garland Press

Grading

- Grade Breakdown:
  Laboratory Performance/Preparation/Proficiency 20%
  (inc. pre-lab write-up done BEFORE lab; assigned readings done BEFORE lab; alertness; getting along with the faculty, TAs, and lab partners; general skillfulness in lab)
  Laboratory Notebook 20%
  Quizzes 25%
  Short Scientific Paper Assignment 5%
  Scientific Research Papers 30%

- Policies:
  Late assignments: 10% deduction/day past due date
  Attendance: Attendance is mandatory to all classroom seminars and the scheduled times in the lab. Absences for important reasons must be cleared with the instructor prior to class meeting. Uncleared absences will result in grade deductions.

Table of Contents

REFERENCE MATERIAL

LABORATORY EXERCISES

MCDB 103L- Winter 2013 - Tentative Schedule

Date	Day	Laboratory Exercise	
1/8	T	Introduction **and** Lab 1. Making Solutions and Observing Cells	
1/10	Th	Lab 2. Pipetting and Bacterial Cell Culture	Module 1
1/15	T	Lab 3. Isolation of Plasmid DNA	Module 1
1/17	Th	Lab 4. RE Digestion and Agarose Gel Start Mammalian Cell Culture/COS Cells	Module 1
1/22	T	Lab 5. Transfection of GFP Tubulin into COS Cells	Module 1
1/24	Th	Lab 5. Fluorescence Microscopy **and** "How to read a Scientific Paper"	Module 1
1/29	T	Lab 7. Cell Cycle Analysis by Guava	Module 2
1/31	Th	Lab 7. Continued	Module 2
2/5	T	Lab 7. Continued	Module 2
2/7	Th	Lab 7. Guava Analysis	Module 2
2/12	T	Lab 6. Disruption of cytokinesis by transfection of a dominant-negative inhibitor of Syntaxin 2 in COS-7 cells **and** assignment due (short summary of scientific paper)	Module 3
2/14	Th	Lab 6. Continued	Module 3
2/19	T	Lab 8. Neuronal Differentiation of PC12 Cells	Module 4
2/21	Th	Lab 8. Continued: Neurotoxicity	Module 4
2/26	T	Lab 8. Continued: Bradford Assay	Module 4
2/28	Th	Lab 8. Continued: Prepare Cell Extract	Module 4
3/5	T	Lab 8. Continued: SDS-PAGE	Module 4
3/7	Th	Lab 8. Continued: Western Blot	Module 4
3/12	T	Paper/Notebook/Questions	
3/14	Th	Paper/Notebook/Questions	
3/19	**T**	**Notebook and last Module Report due: 5pm LSB 2113**	

Notebook checks and quizzes conducted throughout