

MCDB 100  
Introduction to Cell Biology  
Summer 2009

**Instructor:** Hung Dinh Pham, Ph.D.

- Office hours: T and R 1-2 in Boyer Hall 554
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Please put “MCDB 100” in the subject heading of all e-mails. E-mails without this subject heading will be deleted. NOTE: E-mail is not an appropriate medium for long, technical questions—save those types of questions for discussion section and office hours.

**Teaching Assistant:** John Costumbrado

- Office hours: T and R 4-5 (Location: TBA)
- E-mail: [jcostumbrado@gmail.com](mailto:jcostumbrado@gmail.com)

**Lecture meets:** T and R 10:30-12:50 in Botany 325

- Lectures cover all of the primary course material. They should focus your reading and studying. Copies of lecture slides will be posted on Blackboard™. Specific pages for each chapter will be listed on the lecture slides.

**Discussions meet:**

- 1A: T 2-4 in Boelter Hall 5273
- 1B: R 2-4 in Boelter Hall 5273

**Class website:** <http://www.lsic.ucla.edu/classes/summer09/>

- Login and click on the link to the course. Course information such as the syllabus, lecture slides, office hours and class announcements will be posted on the site. Lecture slides will be posted on Blackboard™ by 10:00 pm of the day before lecture (Monday and Wednesday).

**Required Textbook:** Molecular Biology of the Cell; Alberts *et al.* 5<sup>th</sup> Edition, Garland Science.

**Grading:** Weight for the final grade will be the following:

- Discussion - 20%
- Mid-term - 30%
- Final - 50%

- Mid-term and final exams will consist of a mix of multiple choice questions and short answers. They will cover materials from the lectures, readings (both textbook and papers), and discussion sessions. The final exam will be cumulative. Exams must be written in ink. **No pencil allowed.**

- Makeup exams are **NOT** given. In the case you are unable to take an examination or have an illness or emergency, you are responsible for contacting your Teaching Assistant before the examination. A written verification regarding the illness or emergency must be provided. Incomplete is granted if missing only one exam and with the passing grade with all other assignments.

- If you feel that a mistake in grading has been made on your exam, submit your exam and a typed explanation to your teaching assistant by Friday (5pm) of the week following the exam. When you submit your exam for re-grading, the entire content of the exam will be taken into consideration.

## Lecture schedule for MCDB 100

Week	Date	Topic	Chapters
1	T 06/23	Control of gene expression	7
	R 06/25	Mechanisms of cell communication	15
2	T 06/30	Membrane structure and transport	10 & 11
	R 07/02	Intracellular compartments and transport	12 & 13
3	T 07/07	Mitochondria and Chloroplast	14
	R 07/09	The cytoskeleton	16
4	T 07/14	<b>Midterm</b> (lecture 1-5)	
	R 07/16	The cell cycle	17
5	T 07/21	Apoptosis	18
	R 07/23	Cancer	20
6	T 07/28	Stem Cells	23
	R 07/30	<b>Final exam</b> (cumulative)	

## Discussion schedule for MCDB 100

**No discussion on T 06/23 (for 1A) and R 07/30 (for 1B).**

Date	Reading Requirement
•R 06/25 and T 06/30	-Chapter 8: p 553-576. -Paper: Regulation of <i>even-skipped</i> stripe 2 in the <i>Drosophila</i> embryo. Small <i>et al.</i> , 1992.
•R 07/02 and T 07/07	-Chapter 8: p 532-552. -Paper: Epidermal Growth Factor Receptor fate is controlled by Hrs tyrosine phosphorylation sites that regulate Hrs degradation. Stern <i>et al.</i> , 2007.
•R 07/09 and T 07/14	-Chapter 8: p 517-531. -Paper: Vascular endothelial cadherin controls VEGF-2 internalization and signaling from intracellular compartments. Lampugnani <i>et al.</i> , 2007.
•R 07/16 and T 07/21	-Chapter 8: p 501-509. -Paper: The p53 proto-oncogene can act as a suppressor of transformation. Finlay <i>et al.</i> , 1989.
•R 07/23 and T 07/28	-Chapter 9: p579-603. -Paper: Induction of pluripotent stem cells from adult human fibroblasts by defined factors. Takahashi <i>et al.</i> , 2007.