

Cell Biology (GS040013)

Fall 2007 Schedule

Coordinator: Andrew P. Morris, Ph.D.: (X-6681, MSB 4.236; Andrew.P.Morris@uth.tmc.edu)
Co-coord.: Roger G. O'Neil, Ph.D.: (X-6316, MSB 4.118; Roger.G.ONeil@uth.tmc.edu)
Times: Monday and Wednesday, 1:00-3:00 PM
Room: MSB B.645 (or as noted*)

DATE	TITLE	LECTURER
I. Cell Organization, Structure, and Basic Functions		
M 27 Aug	The Dynamic Cell: Organization and Membrane Structure	Morris/O'Neil
W 29 Aug	Membranes: The Basics	O'Neil
M 3 Sept	Proteins: Hierarchical Structure, Folding, Modification, Functional Design and Interactions with Membranes.	Dubinsky
W 5 Sept	The Nucleus: Organization, Structure, and Function	Frost
M 10 Sept	Nucleic Acids and the Synthesis of Macromolecule	Cunningham
W 12 Sept	Cytoskeleton I: Organization, Structure, and Cell Motility	Cabral
M 17 Sept	Cytoskeleton II: Specialized Structures, Cell Shape, and Cell Adhesion	Cabral
W 19 Sept	Didactic: Molecular Strategies for Identifying Interacting Proteins in Cells	Morris
M 24 Sept	Exam I	Morris/Staff
II. Protein Processing, Sorting and Membrane Trafficking		
W 26 Sept	Synthesis, Processing and Trafficking of Lipids and Proteins: Organelle Targeting	Dubinsky
M 1 Oct	The Secretory Pathway and Exocytosis	Dubinsky
W 3 Oct	Protein Sorting/Targeting to Intracellular Organelles : Nucleus / Mitochondria	Cabral
M 8 Oct	Protein Retrieval/Transport from the Plasma Membrane: Endocytosis	Morris

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W 10 Oct	Cell Polarization and Membrane Trafficking/ Regulation of Membrane Trafficking	Morris
M 15 Oct	Didactic: Antibodies in Cell Biology	Schonbrunn
W 17 Oct	Group Discussion I / Review	Schonbrunn/ Cabral/Dubinky
M 22 Oct	Exam II	Morris/Staff
III. Cell Signaling: Interactions with the Environment		
W 24 Oct	Cell Signaling and G Protein-Coupled Receptors/Second Messengers	Dessauer
M 29 Oct	Calcium Signaling: Calcium as a Second Messenger	O'Neil
W 31 Oct	Didactic: Fluorescence Techniques in Cell Biology	O'Neil
M 5 Nov	Cell Signaling and Enzyme-Coupled Receptors	Watowich
W 7 Nov	The Steroid Receptor Superfamily	Loose
M 12 Nov	Didactic: Genes and Genomic experiments	Loose
W 14 Nov	Exam III	Morris/Staff
IV. Cell Proliferation, Differentiation, and Adhesion		
M 19 Nov	The Cell Cycle	Schumacher
W 21 Nov	Regulation of Cell Proliferation; Cancer	Schumacher
M 26 Nov	Cell Death Cell-Cell Adhesion and Interactions	McCrea
W 28 Nov	Cell Adhesion and the Extracellular Matrix	McCrea
M 3 Dec	Group Discussion II / review	McCrea/ Schumacher

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W 5 Dec

Exam IV (Final)

Morris/Staff

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Required Text: *Molecular Cell Biology*, 5th edition, Lodish et al., 2004 (W.H. Freeman and Company: New York), available in the UTHSC Freeman Building Bookstore

Unless otherwise noted, all class times are from 1:00-3:00 PM, Monday and Wednesday, for the dates listed.

Classroom location: MSB B.645

*Change in classroom location to: