

分子與細胞生物學一

Molecular and Cell Biology I

Spring, 2011

教科書(Textbook)

The World of the Cell, the 7-th Edition by Wayne M. Becker, Lewis J. Kleinsmith, Jeff Hardin, Gregory Paul Bertoni (2008, Benjamin Cummings)

授課老師(Lecturers)

焦傳金(CC Chiao), LSII-646, 03-574-2464, ccchiao@life.nthu.edu.tw

傅化文(HW Fu), LSII-628, 03-574-2485, hwfu@life.nthu.edu.tw

葉世榮(SR Yeh), LSII-538, 03-574-2690, sryeh@life.nthu.edu.tw

焦傳金 (Part I, Weeks 1-6)

- Chapter 1 A preview of the cell (also Appendix “principles and techniques of microscopy”)
- Chapter 4 Cells and organelles
- Chapter 15 Cytoskeleton systems
- Chapter 16 Cellular movement: motility and contractility
- Chapter 17 Beyond the cell: cell adhesion, cell junctions, and extracellular structures

傅化文 (Part II, Weeks 7-12)

- Chapter 2 The chemistry of the cell
- Chapter 7 Membranes: their structure, function, and chemistry
- Chapter 12 The endomembrane system and peroxisomes

葉世榮 (Part III, Weeks 13-18)

- Chapter 8 Transport across membranes: overcoming the permeability barrier
- Chapter 13 Signal transduction mechanisms: I. electrical and synaptic signaling in neurons