

分子與細胞生物學一

Molecular and Cell Biology I

Spring, 2012

教科書(Textbook)

Becker's World of the Cell (the 8-th Edition) by Jeff Hardin, Gregory Paul Bertoni, and Lewis J. Kleinsmith (2011, Benjamin Cummings)

授課老師(Lecturers)

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焦傳金 (Part I, Weeks 1-6)

- Chapter 1 A preview of the cell (also Appendix “Visualizing cells and molecules”)
- 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