Lecture Outline for "Experimental Approaches in Molecular and Cell Biology"

Topic	Protein localization
Lecturer	Dr. Hsou-min Li
Course	Targeting and retention signals for sub-cellular compartments
Outline	
	The endomembrane system
	In vitro transcription
	Use of endoglycosidase to determine localization
	Fluorescence vs. chemiluminescence
	Immunogold microscopy (peroxisome)
	Nucleus
	Chloroplasts and mitochondria
	In vitro translation
	Cell lysis
	Centrifugation: differential, rate zonal, isopycnic
	Run time conversion using k factor
	Protease treatment
	Alkaline and high salt extractions
	Nuclear and cytoplasmic bodies