

## Analytical Biochemistry 2010

		Outline	Professor	Institute
1	3/4	Concepts and General Principles of Analytical Biochemist	Yu-Ju Chen	
2	3/11	Concepts and General Principles of Analytical Biochemist	Yu-Ju Chen	
3	3/18	Biomolecules: Their Structure and Analysis Related to Drug Discovery amd Pharmaceutical Industry	Chun-Hung Lin	Institute of Biological Chemistry
4	3/25	Separation by Centrifugation	Yu-Ju Chen	Institute of Chemistry
5	4/1	Visualization by Microscopy--- Fluorescence microscopy	Wei-Hau Chang	Institute of Chemistry
6	4/8	Visualization by Microscopy -- Elecron Microscopy	Wei-Hau Chang	Institute of Chemistry
7	4/15	Chromatographic and Electrophoretic Techniques	Yu-Ju Chen	Institute of Chemistry
8	4/22	<b>Midterm (30%)</b>	Yu-Ju Chen	Institute of Chemistry
9	4/29	Mass Spectrometry : Basics	Yu-Ju Chen	Institute of Chemistry
10	5/6	Mass Spectrometry in Biomedical Application	Yu-Ju Chen	Institute of Chemistry
11	5/13	3D Structure by X-ray Crystallography	Yu-Ju Chen	Institute of Chemistry
12	5/20	Bioinformatics for Biochemistry and Molecular Biology	Hsieh-Fen Juan	Taiwan university
13	5/27	NMR and MRI: Basics and Biomedical Application	DerLii Tzou	Institute of Chemistry
14	6/3	NMR and MRI: Basics and Biomedical Application	DerLii Tzou	Institute of Chemistry
15	6/10	Real World Problem: SNP analysis and Cancer analysis	Yu-Ju Chen	Institute of Chemistry
16	6/17	<b>Final Exam (30%)</b>	? Teams	
17	6/24	<b>Team Report (40%) -- Challenges and Promise of Stem Cell</b>		

1. *Principle and Techniques of Biochemistry and Molecular Biology*  
(6<sup>th</sup> edition, 2005, CAMBRIDGE) Keith Wilson and John Walker,
2. *Analytical Biochemistry* (3<sup>rd</sup> edition, 1998, LONGMAN)  
David J. Holmes and Hazel Peck,

Midterm 30%  
Final 30%  
Team Report 40%