

TIGP Bio 2020 Fall Syllabus
Basic Molecular Biology I (B1)

Place: Room 107, New Building of the Institute of Information Science, Academia Sinica.

Time: Tuesday 09:00-12:00

Chair: Dr. Chuan-Hsiung Chang (cchang@ym.edu.tw)

Aim: understanding the key concepts in molecular and cell biology and their experimental underpinnings

Outline:

Textbook: (Required)

1. Molecular Cell Biology, 7th edition, by Harvey Lodish et al. Publisher: W. H. Freeman. International Edition (13 Aug, 2012). ISBN-13: 9781464109812.

Local book store: <http://www.yihscient.com.tw/front/bin/ptdetail.phtml?Part=06585>

Reference: (Recommended but not required)

1. Molecular Biology of the Cell, 6th edition, 2014.

<http://www.yihscient.com.tw/front/bin/ptdetail.phtml?Part=06595&Rcg=53601>

2. Molecular Biology : Principles of Genome Function, 2nd edition, 2014.

<http://www.yihscient.com.tw/front/bin/ptdetail.phtml?Part=06594&Rcg=52559>

3. Biochemistry: A Short Course, 2nd edition, by Lubert Stryer et al. Publisher: W. H. Freeman (December 23, 2011). ISBN-10: 1429283602, ISBN-13: 978-1429283601.

Lecturers: Dr. Chuan-Hsiung Chang, Dr. Ueng-Cheng Yang, Dr. Ho-Ming Chen, Dr. Jung-Hsin Lin, Dr. Wailap Victor Ng, Dr. Yuh-Shan Jou, Dr. Jie-Rong Huang, Dr. An-Chi Wei

TA: N/A (Please refers to the lectures respectively shall you have any questions of each class)

E-mail:

Office hours: N/A

Grades: Midterm exam 50%. Final exam 50%.

For the most up-to-date syllabus, please visit <https://tigbbp.iis.sinica.edu.tw/tigbbio/index.html>

Week	Date	Topics/Brief Description	Lecturers
1	2020/09/15 @N101	Molecules, Cells, and Evolution	Dr. Chuan-Hsiung Chang changed to Dr. Ueng-Cheng Yang
2	2020/09/22 Moved from 12/16	Cancer	Dr. Yuh-Shan Jou
3	2020/09/29 @N101	Protein Structure and Function	Dr. Jie-Rong Huang
4	2020/10/06	Transcriptional Control of Gene Expression	Dr. An-Chi Wei
5	2020/10/13 @N101	Basic Molecular Genetic Mechanisms	Dr. Ueng-Cheng Yang
6	2020/10/20	Post-Transcriptional Gene Control	Dr. Ho-Ming Chen
7	2020/10/27	Molecular Genetic Techniques	Dr. Ueng-Cheng Yang
8	2020/11/03	Review Week (no class)	---
9	2020/11/10 @O108	Midterm Exam	---
10	2020/11/17	Genes, Genomics, and Chromosomes	Dr. Chuan-Hsiung Chang changed to Dr. Ueng-Cheng Yang
11	2020/11/24	Biomembrane Structure and Transport	Dr. Jung-Hsin Lin
12	2020/12/01	Cellular Energetics	Dr. Ueng-Cheng Yang
13	2020/12/08	Signal Transduction and G Protein–Coupled Receptors	Dr. Wailap Victor Ng
13	2020/12/09(Wed)	Signaling Pathways That Control Gene Expression	Dr. Wailap Victor Ng
14	2020/12/15	The Eukaryotic Cell Cycle	Dr. An-Chi Wei
14	2020/12/16(Wed) Moved to 09/22	--	--
15	2020/12/22	Review Week (no class)	---
16	2020/12/29	Final Exam	---