

Syllabus of **Molecular Biology** for 2013 spring

Textbook: Molecular Biology, 2013 second edition, by David Clark. Elsevier Press (滄海圖書代理)

Lecturer: 王慧菁, 張大慈, 李佳霖

Time: M3M4, W2

Classroom & assistant: To be announced

Schedule

| Date | Lecturer | Chapter |
|---------|----------|---|
| 02/18 M | 張大慈 | Chapter-1: Cells and Organisms |
| 02/20 W | | Chapter-2: Basic Genetics |
| 02/25 M | 張大慈 | Chapter-3: DNA, RNA, and Protein |
| 02/27 W | | Chapter-4: Genes, Genomes, and DNA |
| 03/04 M | 張大慈 | Chapter-5: Manipulation of Nucleic Acids |
| 03/06 W | | Chapter-6: Polymerase Chain Reaction |
| 03/11 M | 張大慈 | Chapter-7: Cloning Genes for Analysis |
| 03/13 W | | Chapter-8: DNA Sequencing |
| 03/18 M | 張大慈 | Chapter-9: Genomics & Systems Biology |
| 03/20 W | | |
| 03/25 M | 張大慈 | Midterm exam |
| 03/27 W | 王慧菁 | Chapter-10: Cell Division and DNA Replication |
| 04/01 M | | |
| 04/03 W | 王慧菁 | Chapter-11: Transcription of Genes |
| 04/08 M | | Chapter-12: Processing of RNA |
| 04/10 W | 王慧菁 | Chapter-13: Protein Synthesis |
| 04/15 M | | Chapter-14: Protein Structure & Function |
| 04/17 W | 王慧菁 | Chapter-15: Proteomics: Global Analysis of Proteins |
| 04/22 M | | Chapter-16: Regulation of Transcription in Prokaryotes |
| 04/24 W | 王慧菁 | Chapter-17: Regulation of Transcription in Eukaryotes |
| 04/29 M | | Chapter-18: Regulation at RNA level |
| 05/01 W | | |
| 05/06 M | 王慧菁 | Midterm exam |
| 05/08 W | 李佳霖 | Chapter-19: Analysis of Gene Expression (Transcriptome) |
| 05/13 M | | |
| 05/15 W | 李佳霖 | Chapter-20: Plasmids |
| 05/20 M | | Chapter-21: Viruses |
| 05/22 W | 李佳霖 | Chapter-22: Mobile DNA |
| 05/27 M | | Chapter-23: Mutations and Repair |
| 05/29 W | 李佳霖 | Chapter-24: Recombination |
| 06/03 M | | |
| 06/05 W | 李佳霖 | Chapter-25: Bacterial Genetics |
| 06/10 M | | Chapter-26: Molecular Evolution |
| 06/12 W | | |
| 06/17 M | 李佳霖 | Final exam |