



# SH03004: MOLECULAR BIOLOGY 2 (SINH HỌC PHÂN TỬ 2)

Credits: 2 credits (Lecture: 2 – Practice: 0)



## EXPECTED LEARNING OUTCOMES

Course objectives	COURSE EXPECTED LEARNING OUTCOMES After successfully completing this course, students are able to	Expected learning outcomes of program
<b>Knowledge</b>		
CELO1	Analyze the demands and the requirements at DNA and protein levels of biotechnological products implementing in the management, production and business related to biotechnology.	ELO2
<b>Skills</b>		
CELO2	Evaluate the quality of several biotechnology products such as recombinant proteins, the metabolic products and biosafety.	ELO3
<b>Personal autonomy and responsibility</b>		
CELO3	Act professionally and up-to-date the knowledge/ new sights in biotechnology	ELO15

## CONTENT

- Chapter 1: Genome and genomic function
- Chapter 2: Gene expression in Prokaryote
- Chapter 3: The complexity of gene regulatory in Eukaryote
- Chapter 4: The transportation and degradation of proteins
- Chapter 5: Epigenetics and gene regulatory

## STUDENT TASKS

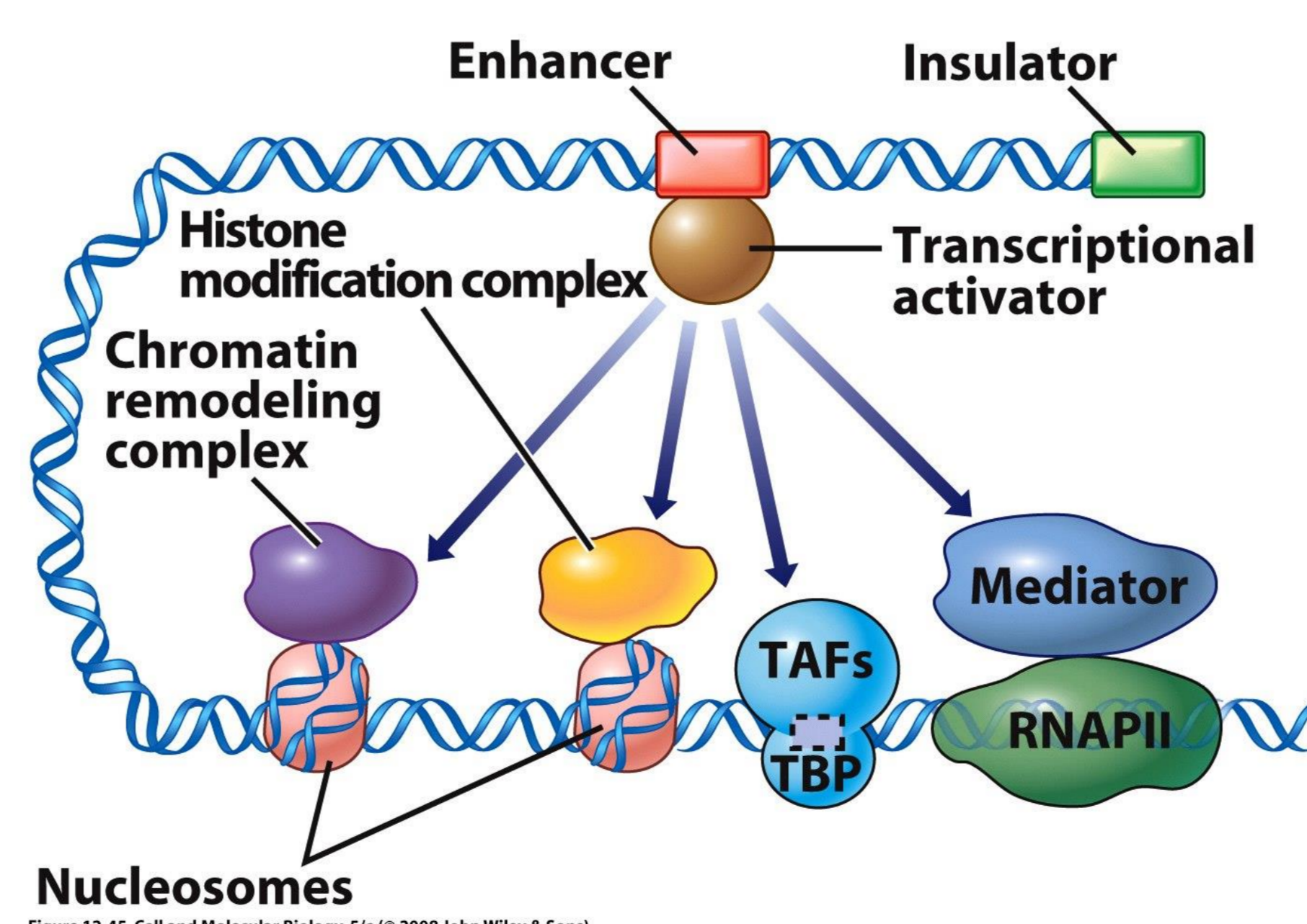
- Attendance: Students are required to attend at least 2/3 of the total theory lectures of the course.
- Preparation for the lecture: Students are required to read lecture notes, text-books and references before attending the class.
- Group discussion and presentation: Students are required to engage in group discussion and present the pick-up topic seminar.
- Mid-term exam: Students miss a mid-term will be given a mark of zero.
- Final exam: Students must take the final exam and meet requirements.
- For online learning: Students need to install online learning software and fulfill the requirements for online learning.

## ASSESSMENT METHODS

- Attendance: According to regulations of VNUA.
- Exercise and progress tests: Students must complete the exercises, 15-minute tests, group discussion and presentation with satisfied results.
- Mid-term exam: Midterm exam is 50 minutes long with a 50-question quiz.
- Final exam: Final exam is 50 minutes long with a 50-question quiz.
- For online evaluation: Students need to install software and fulfill the requirements for online evaluation.
- Grading: 10 marks
- Weighting:
  - ✓ Attendance: 10 %
  - ✓ Formative assessment: 30%
  - ✓ Final exam: 60%

## LEARNING METHODS

- Read lecture notes, books and references before attending the class.
- Students are required to listen to lectures in class and perform other learning activities such as solving practice problems after class.
- Prepare and actively participate in discussion.



## LECTURERS

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