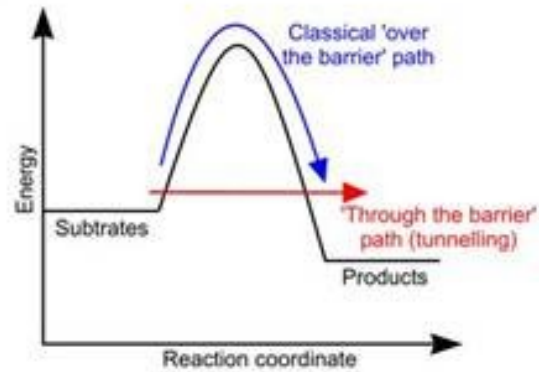
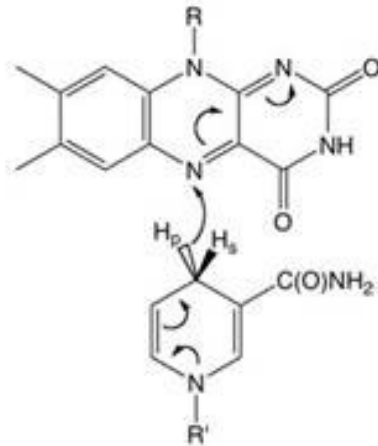
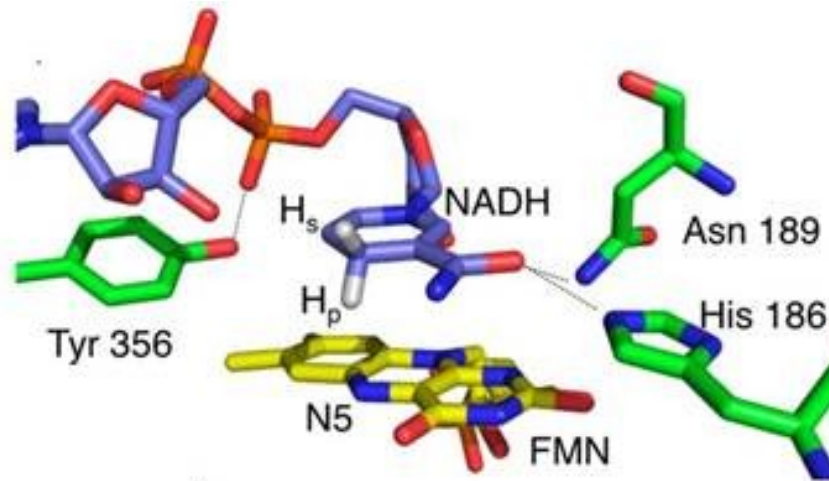


Enzymology (320BCH)



❖ <http://www.lab.ls.manchester.ac.uk/enzymology/>

Instructor Contact Information:

- **Instructor:** Dr. Abeer Mohammad Al-Dbass,
Associate Professor
King Saud University, Science of collage,
Biochemistry department- Building 5, Room 275
- **Email:** aldbass@ksu.edu.sa

Time schedule for the course:

Section	Lecture Day	Lecture Time	Classroom
25579	Sunday, Tuesday & Thursday.	9-10 am	A 119 2 05 1115

Course evaluations

Mark distribution

- **Exams:**
 - Mid I 20 marks
 - Mid II 20 marks
- **Quizzes:**
 - Quiz I 5 marks
 - Quiz II 5 marks
- **Homework's:**
 - HW I 5 marks
 - HW II 5 marks
- **Final exam** 40 marks
- **Total** **100 marks**

Dates of exam

❖ Mid I	22\1\1438H
❖ Mid II	12\3\1438H
	(12-1pm)
❖ Quiz I	9\1\1438H
❖ Quiz II	--\--\1438H
❖ Quiz III	--\--\1438H
❖ Quiz IV	--\--\1438H

The knowledge gained will be:

- To recall biocatalysts, their importance; and method of naming an enzyme.
- To recognize methods that can be used to determine the presence of an enzyme and units and its purification.
- To memorize structure and functions of enzymes and how alterations in the enzyme structure can alter the functions and activity of enzymes.

The knowledge gained will be: (Cont.)

- To describe the kinetics of enzyme catalysis and factors that influence enzyme activity, including inhibitors and how these can be utilized in various ways .
- To recall how enzymes are essential in controlling metabolic pathways in living systems

The knowledge gained will be:(Cont.)

- To recognize how enzymes and their isoforms can be used to diagnose different diseases.
- To understand how could the enzymes catalyze the reactions using different types of catalysis.
- To study the Cofactors and their role in the enzyme's mechanism

References

Required Text (s)

- Fundamentals of Biochemistry, by Voet D., Voet JG, and Pratt CW, John Wiley & Sons, Inc (1999).
- Lehninger Principles of Biochemistry, 5th edition, by Nelson DL and Cox MM, W.H. Freeman and Company (2008).
- Biochemistry, 6th edition, by Berg JM, Tymoczko JL, and Stryer L, W.H. Freeman and Company (2006).

References (cont.)

- Lippincott's Illustrated Reviews: Biochemistry, by Pamela C. Champe & Richard A. Harvey (2010)
- Biochemical Calculations: How to Solve Mathematical Problems in General Biochemistry, by Irwin H. Segel 2nd Edition (1976).

Good Luck...