

MARCH

29
Saturday
088-277 • WK 13

proporties of ensembles of hiomolecules · elementary concepts of chemical thermodynamics 10 · equilibrium & kinetics 11 · ionic equilibrium & chemistry in aqueous solution 12 · papplication to stability of proteins, nucleie acids, and their interactions 8-9 reactions & reaction mechanisms · classification of reactions and their mechanisms · application to classification of biochemical reactions and their enzymes

300-12 important biochemical reactions

- · examples from enzyme classes
- · active site
- · target specificity
- · inhibition & activation

MARCH
 14
 15
 16
 17
 18
 19
 20

 21
 22
 23
 24
 25
 26
 27

 28
 29
 30
 20
 20
 20
 27
 WK 14 • 090-275 reactions involved in storage and retrieval · enzyme kinetics 13-18 exploration and analysis of biomolecular structures interactions experimental methods and techniques for analyzing structures and interactions NMR, ESR, X-ray, CD, fluorescence, etc. · detailed structural analysis of some representative proteins · analysis of DNA and RNA dructures 19-24 molecular modeling & docking, concepts and techniques useful concepts in molecular modeling tasks and techniques in molecular modeling identification of tasks, e.g. alignment, minimization, conformational search, dynamics and simulation, 64 C. 2014

3.8.5050

	3.8.2020	
5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 M T W T F S S	Wednesday WK 14 • 092-273	APRIL 2
8. rendering of various aspects of st	ructures of	biomolecule
· web-based tools		
10		
114. query tools		
· sequence retrieval		
· Structure retrieval		
2 5 · protein structure analysis tools		•
· Structure alignment		· . •
· homology search		
· domain assignment		
· bold recognition and analysis		
6. structure prediction took		
* secondary structure prediction		
· protein structure		
· RNA Grudure		
		2014

APRIL	38.2020
3 Thursday 093-272 • WK 14	30 31 2 3 4 9 10 11 16 17 18 19 20 21 22 5 5 M T W
7. molecular modeling tools	The state of the s
• threading	
11 Comparative modeling (Swiss Mod)	
128. computational tools	
1 e geometry optimization & energy	minimization
molecular dynamics simulation	
TEXT BOOKS	3
bio-chemistry; lehninger	
bio-chemistry; stryer	
· bio-chemistry; voet, voet, and pra	t4.
2014	