#### Lecture 10 (9/30/20)

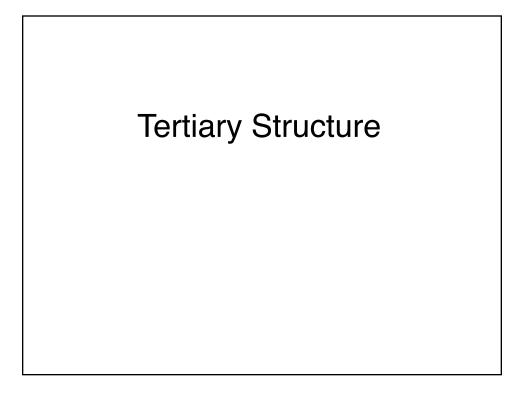
• Reading: Ch4; 125, 138-141, 141-142

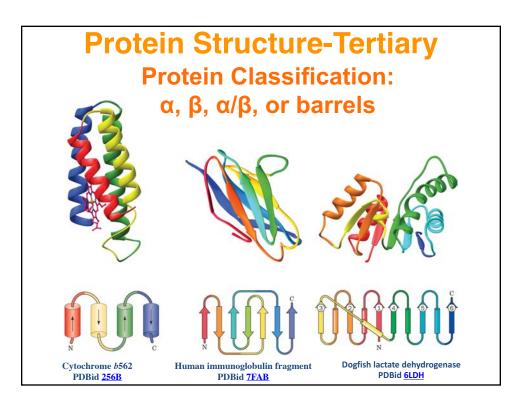
• Problems: Ch4 (text); 7, 9, 11 Ch4 (study guide); **1**, **2** 

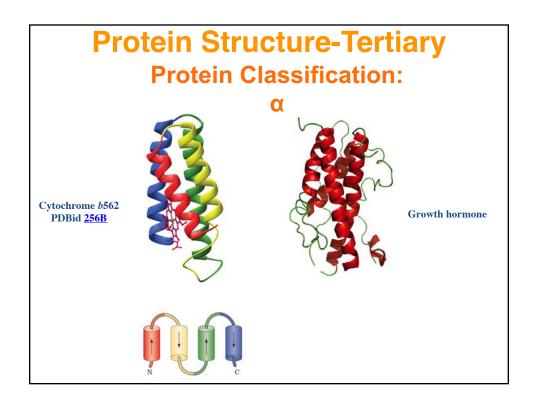
#### NEXT

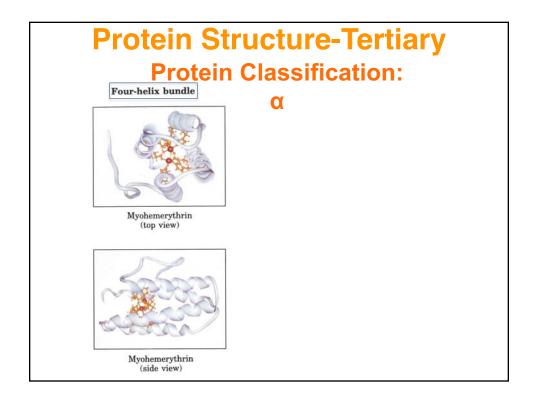
- Reading: Ch4; 125 (Fig 4-10), 134-136 (struct. determin.)
- Problems: Ch4 (text); 10, 15

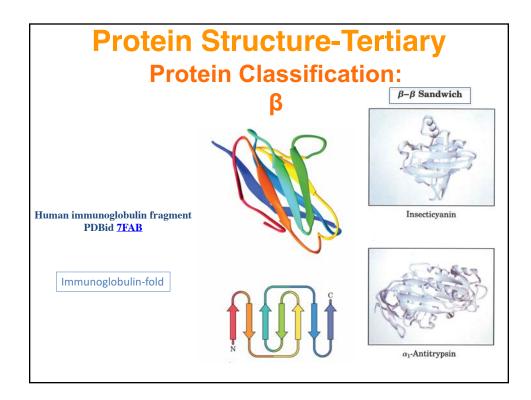
OU	TLII	NE Lecture 10 (9/30/20)
I.	Pro	tein Structure
ŀ	A. F 1.	Primary Determination a. Sequence determination; CHEMICAL b. Sequence determination; PHYSICAL c. Sequence determination; BIOLOGICAL
E	1. 2.	<ul> <li>Secondary</li> <li>Conformational structure; Levinthal paradox</li> <li>Pauling &amp; Corey's predictions         <ul> <li>α-Helix</li> <li>β-sheets/strands</li> <li>Connections between β-strands</li> <li>Connections between α-helices; angle not important</li> </ul> </li> <li>Super secondary structure</li> </ul>
	C. 1. 2. 3. 4. 5. D. (	Tertiary Picturing and classifications Topology Domains Intrinsically disordered

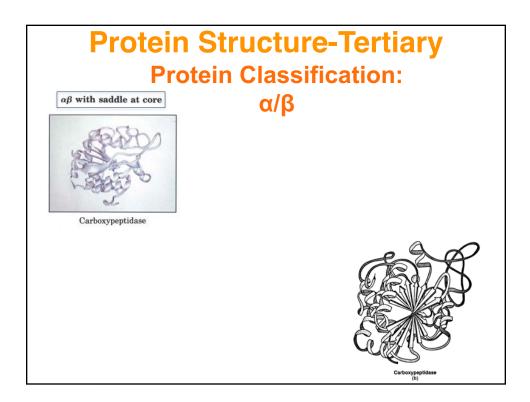


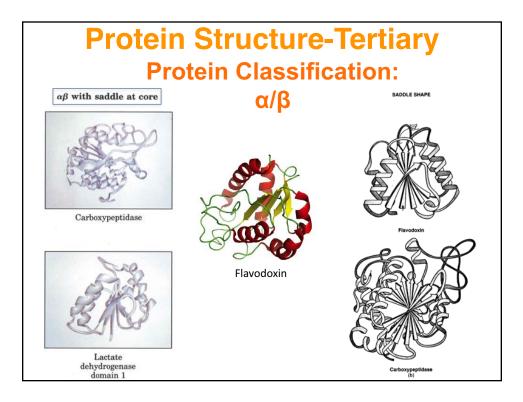


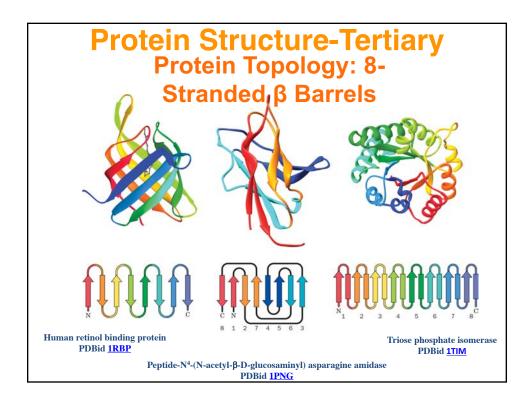


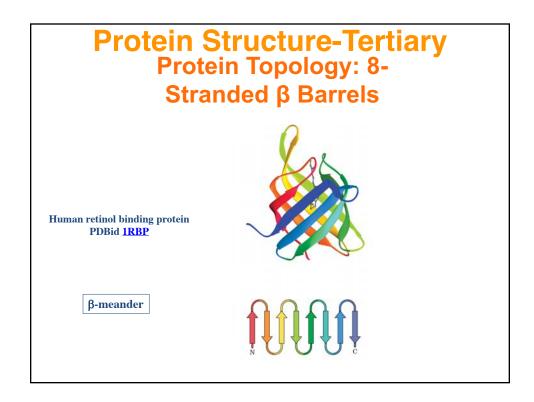


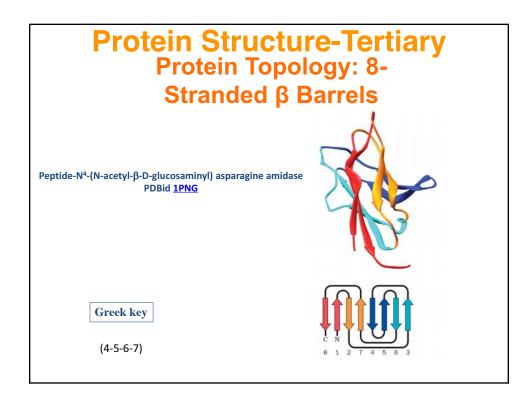


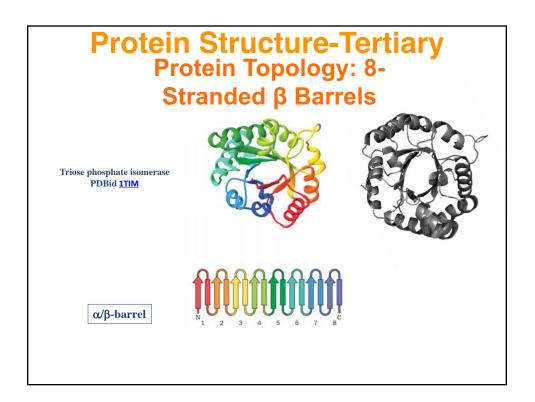


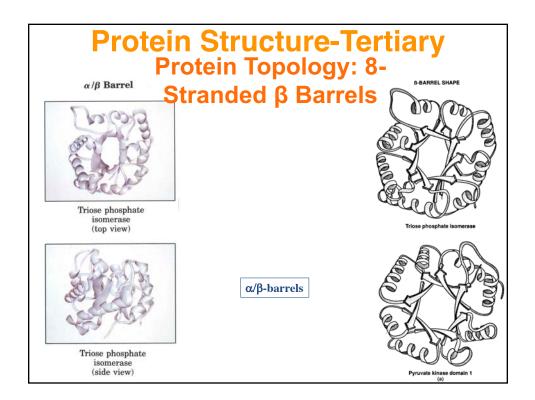


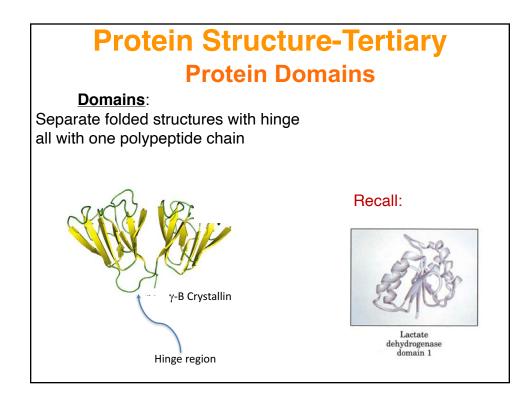


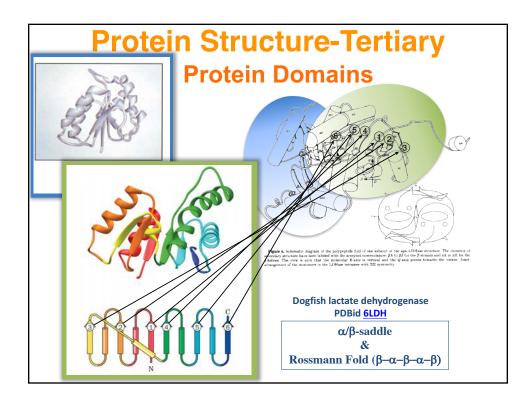


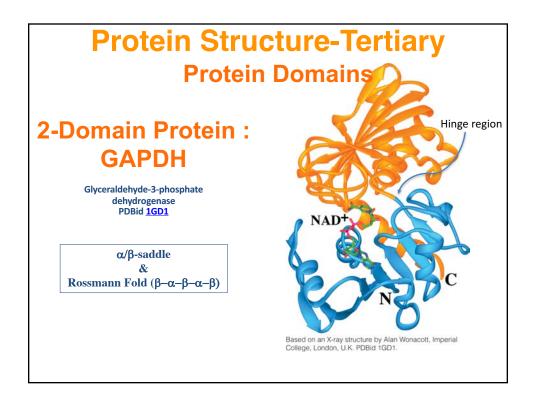


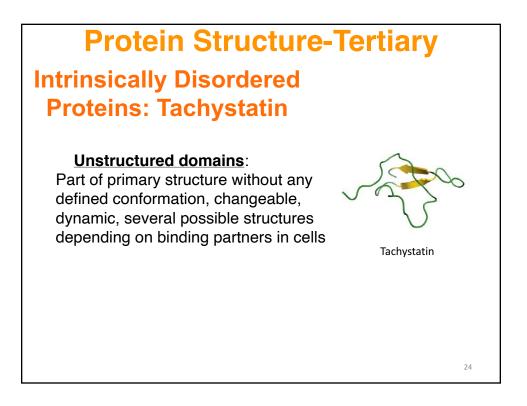


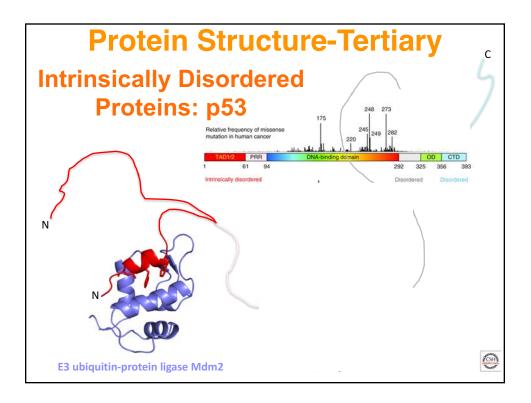


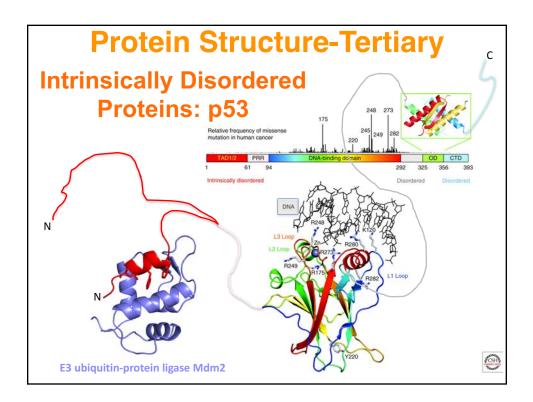


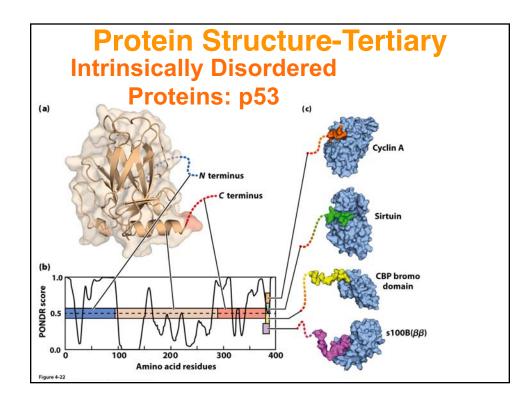


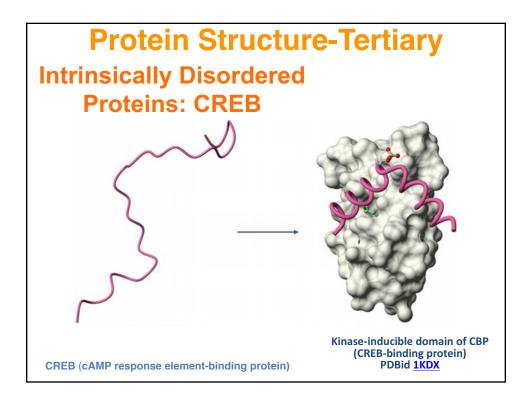


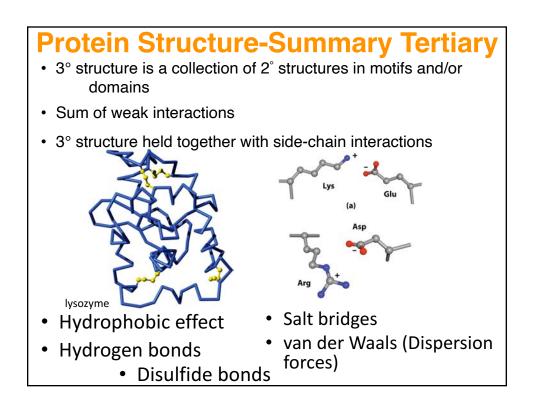


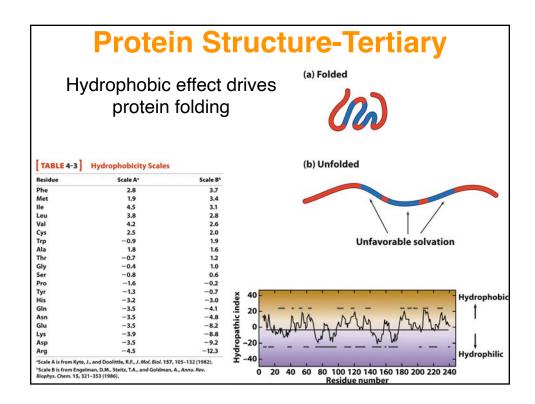


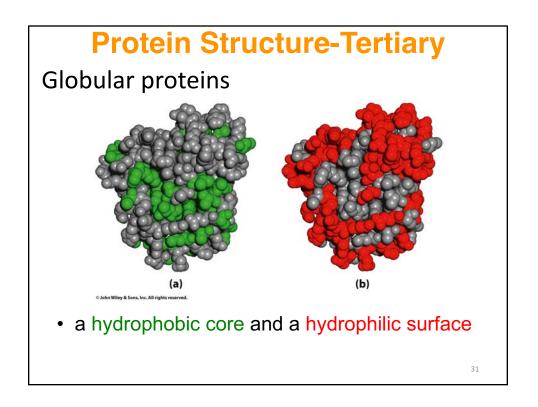


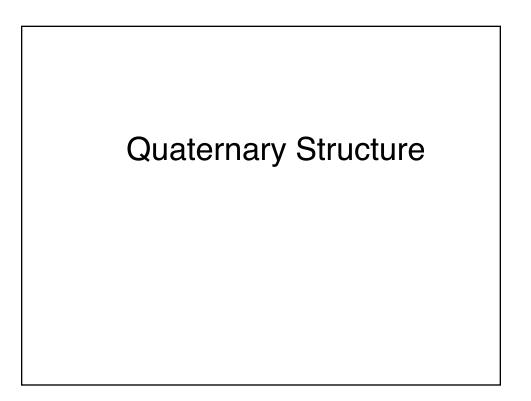


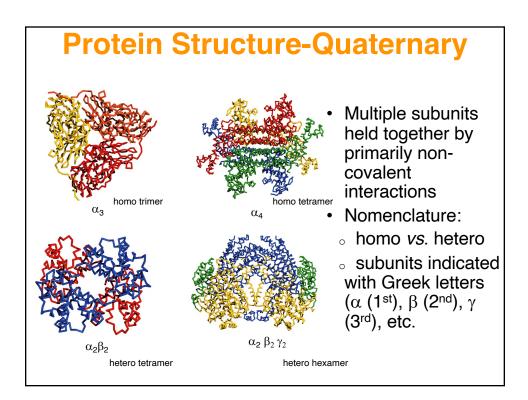


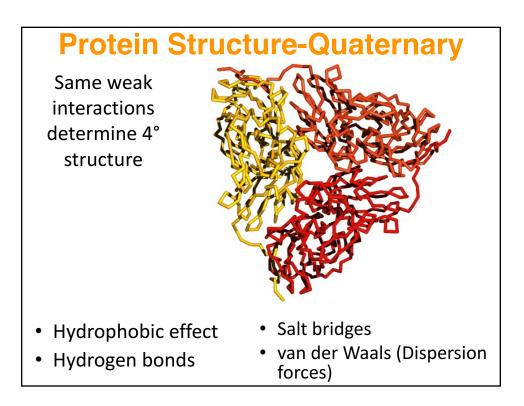


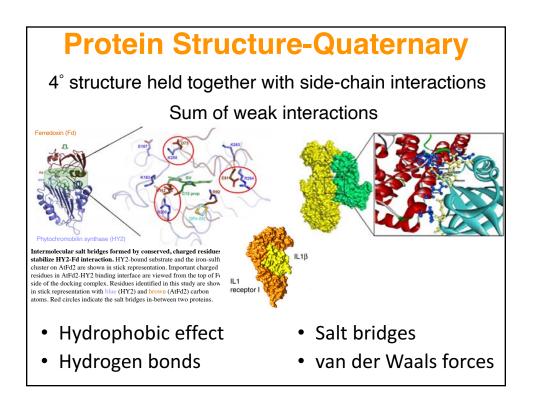


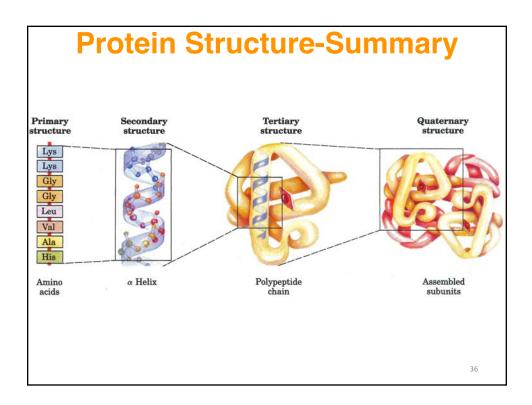












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# **Protein Structure-Tertiary**

### Problem

Which residue would be more likely to be \_\_\_\_?

- 1. On a globular protein's surface: Trp or Gln
- 2. In the globular protein interior: Ser or Val
- 3. In the middle of an alpha-helix: Gly or Leu
- 4. In a beta-sheet: His or Pro

# **Protein Characterization**

**Quaternary Structure** 

