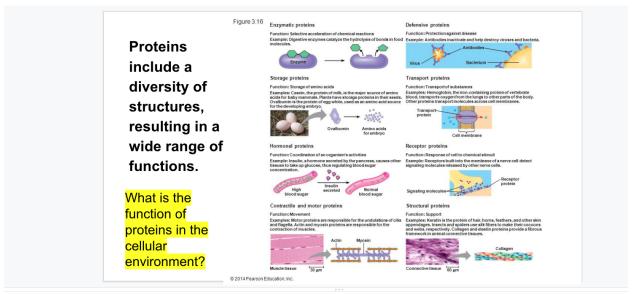
Source: [KBhBlO101Macromolecules]

#ref #disorganized

1 | Overview

- · Rubisco is apparently a cool protein
- · Most abundant protein in the world
- · Enzyme that is very slow, which is why plants make so much of it
- · Rubisco in pop science

2 | Slide Intro



- 1. Proteins include a diversity of structures made of folded chains of amino acids, resulting in many molecules with a wide range of functions.
 - a. Proteins are made up of long, folded chains of amino acids held together by peptide bonds. Amino acids share a common structure with an amino group, a carboxyl group, a hydrogen atom, and an R-group around a central o-carbon.
 - b. R-groups have variable chemical structures and properties, which determines how the amino acid chain will fold, and subsequently the structure and the function of the protein

c. Proteins share three levels of superimposed structure: primary, secondary, and tertiary. Quaternary structure arises when two or more polypeptide chains are bonded together.

Figure 1: Pasted image

3 | Carbon Fixation

- · Turning carbon from the air into carbohydrates
- Combines carbon from CO_2 , light, and water to get carbohydrates

• $6CO_2 + 6H_2O + light = carbs$

Exr0n · 2020-2021 Page 1