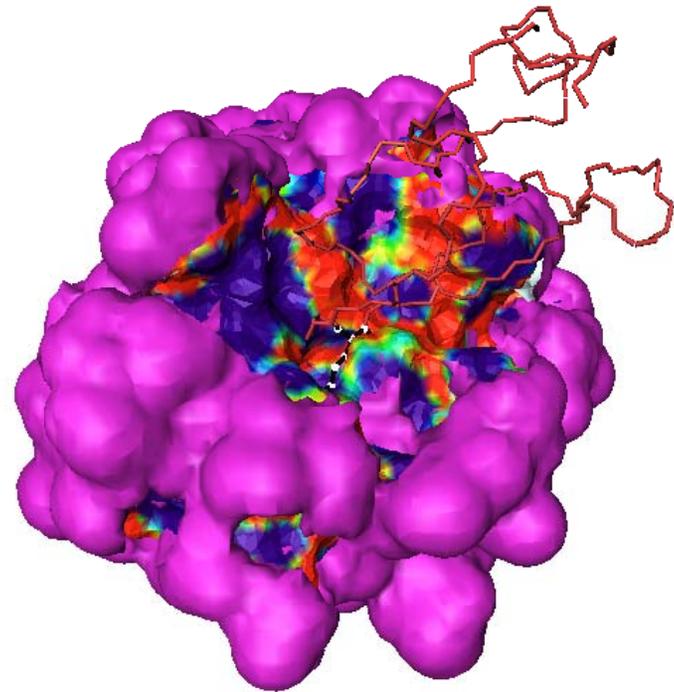


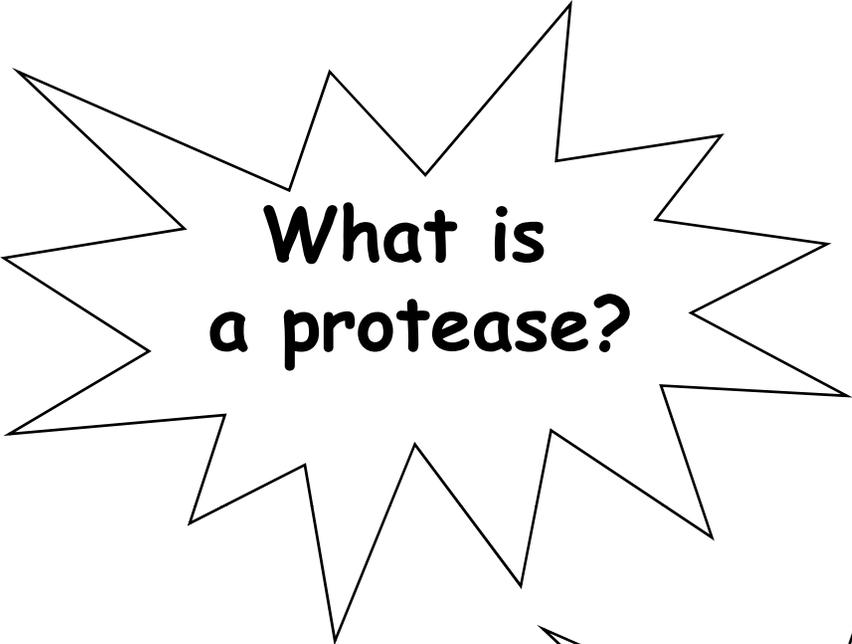
What is this?

Trypsin



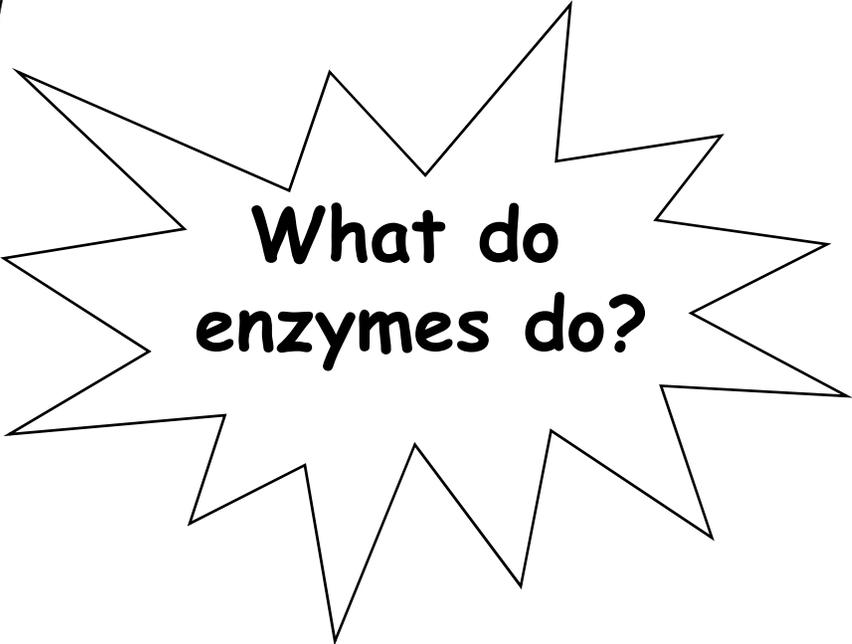
What is  
trypsin?

Protease



**What is  
a protease?**

**Enzyme**



**What do  
enzymes do?**

**How do we use  
trypsin in the  
lab?**

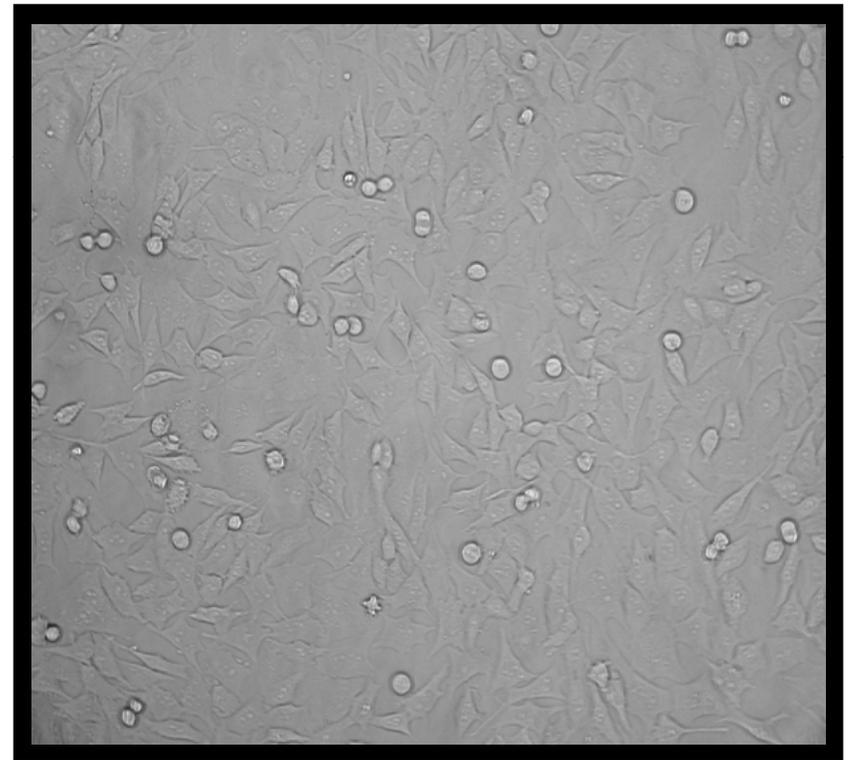
**To detach cell monolayer from  
their culture surface**



**T75cm<sup>2</sup> flask**



**35mm culture  
dish**



**ATDC5 cells attached to 35mm  
cell culture dish**

**Options for  
detaching cells:**

1. Allows cells to sit with occasional tapping the side of the flask--  
*TAKES TOO LONG!*

2. Scrape-- *WHAT IF I "HURT"  
THE CELLS*

3. **Apply Trypsin--** *SOUNDS  
GOOD TO ME!!!*



**Cell scrapper**



**Trypsin**

Let's try to detach cells using trypsin...does the enzyme live up to its role to speed up a reaction?