

# Course update....

11:15 1634 LGRT

- Seminar options are Thursday....others?
- Reminder about extra credit assignment —
- Please check your scores in SPARK
  
- Office hours this week: W 12-1, F 1-2  
or at large vic email

# Exam 3 review

# Integrative Review

- Problem: You are a graduate student and you want to learn more about an enzyme and its role in Alzheimer's Disease.

— read about — structure — homology  
mutations — X  
drugs — | not great

# HDAC22 – Histone Deacetylase 22

- Step 1: Dry research.
  - You find a crystal structure and a few poor inhibitors.
  - You think you see a potential catalytic site.
  - You want to see what happens if you alter this catalytic site.

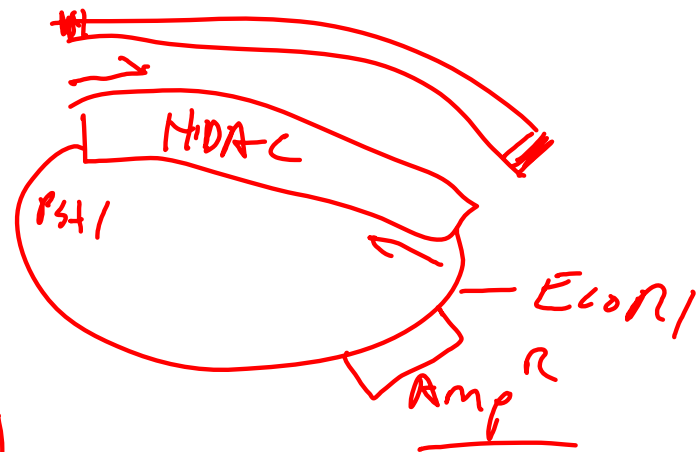
– 2 ways to do this....

– point mutations

⊗ inhibitors

- sequence - Glutamate - acidic  
↓  
Alanine - methyl

① get DNA

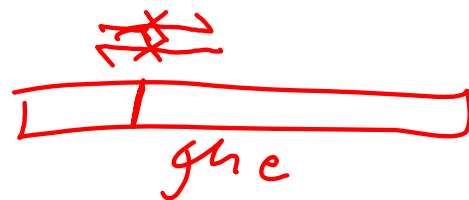


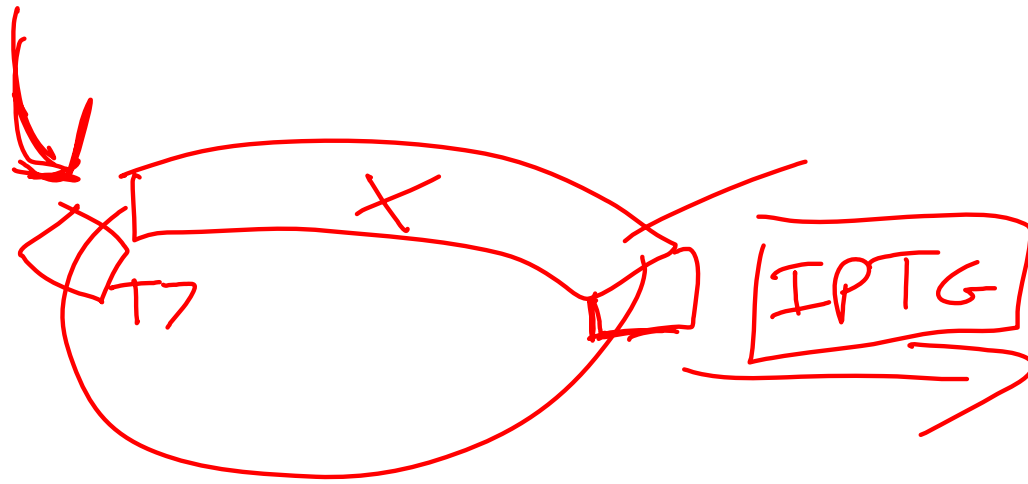
② PCR - For Rev

③ cloning - put DNA in bac



④ mutation - "PCR"





protein-X

purify it?







