- Announcements
- Pre-lab Lecture
  - Module 2: design overview
  - Primer design for mutagenesis
  - Intro to restriction enzymes
  - Today in Lab: M2D1

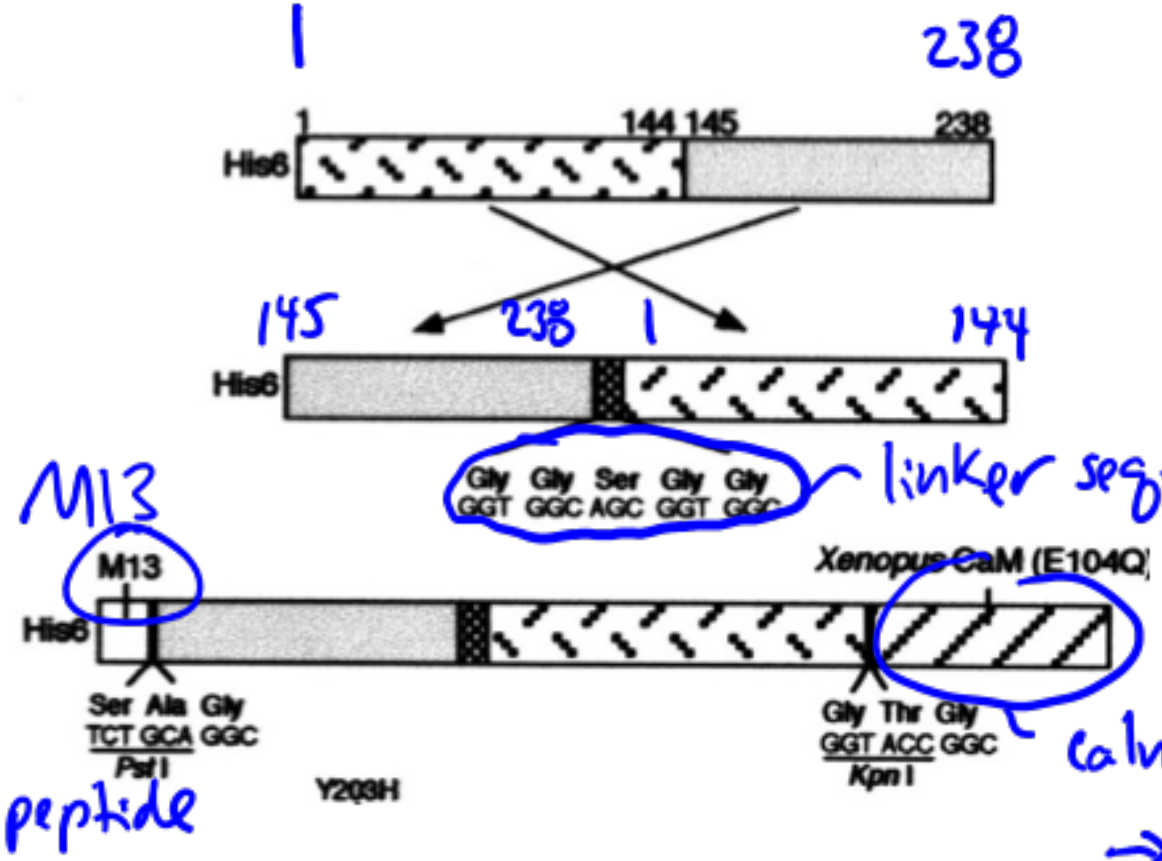
Announcements

- Module 1 report due tomorrow by 1 PM, to 20109.submit@gmail.com
  - Module 1 drafts returned Fri March 22nd
  - Revisions due April 6th (Fri) by 11 AM
  - Draft letter grade may increase by up to 1⅓
  - Indicate (highlight, etc.) revisions made
- Primer design summary due Tuesday by 11 AM

- Introducing… Mark, your TA for Module 2

M2 quizzes: D3, D6, D8

Inverse pericam composition

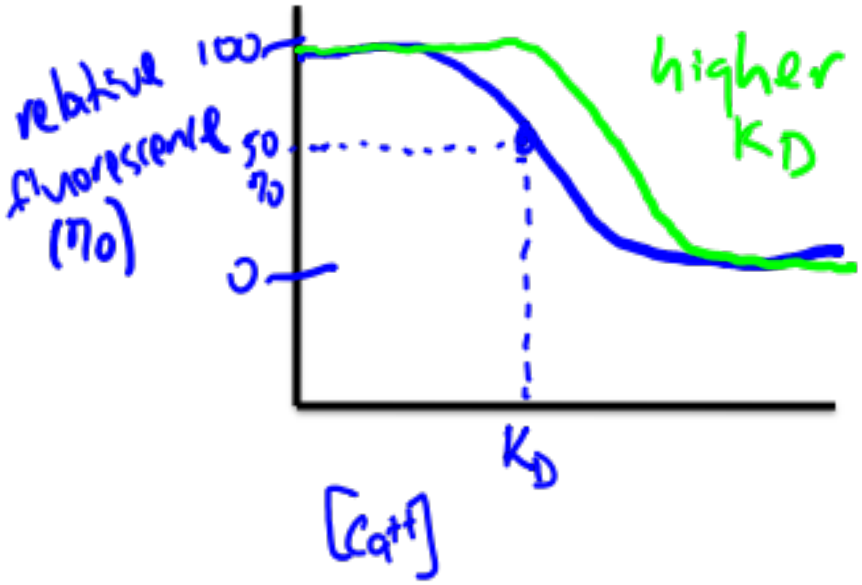


Goal: affect binding properties

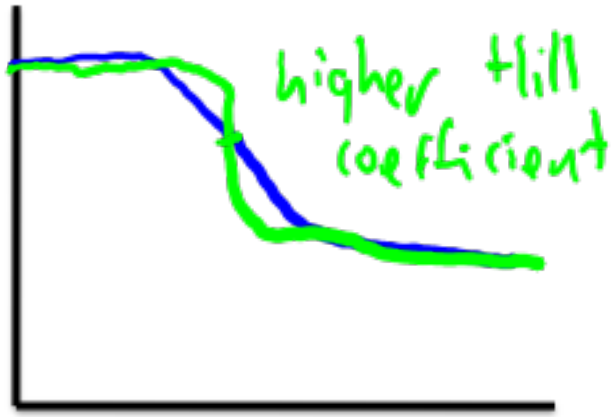
vary [Ca++], keep [IPC] constant

fluorescence ∝ 1/binding

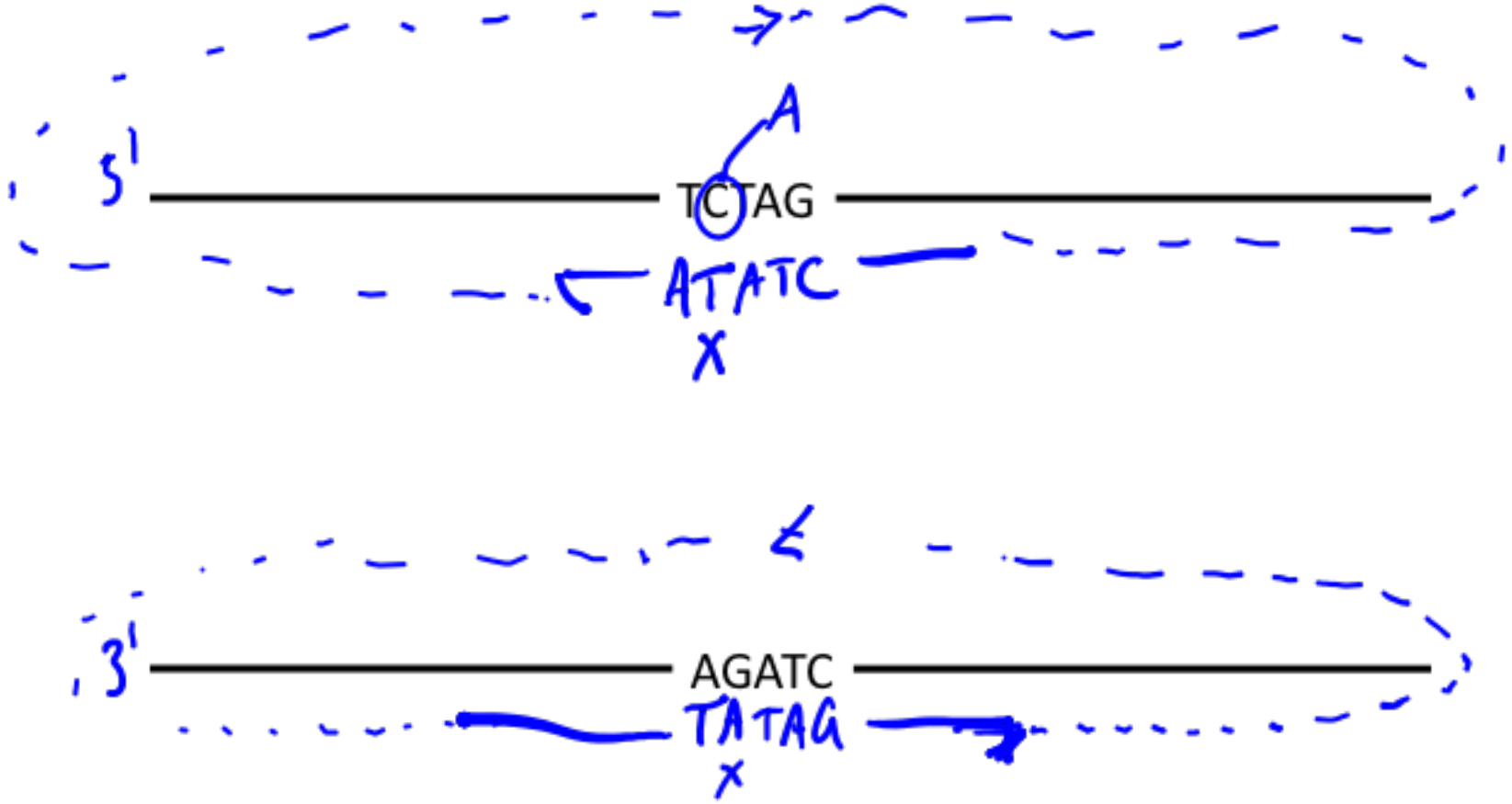
affinity ↓



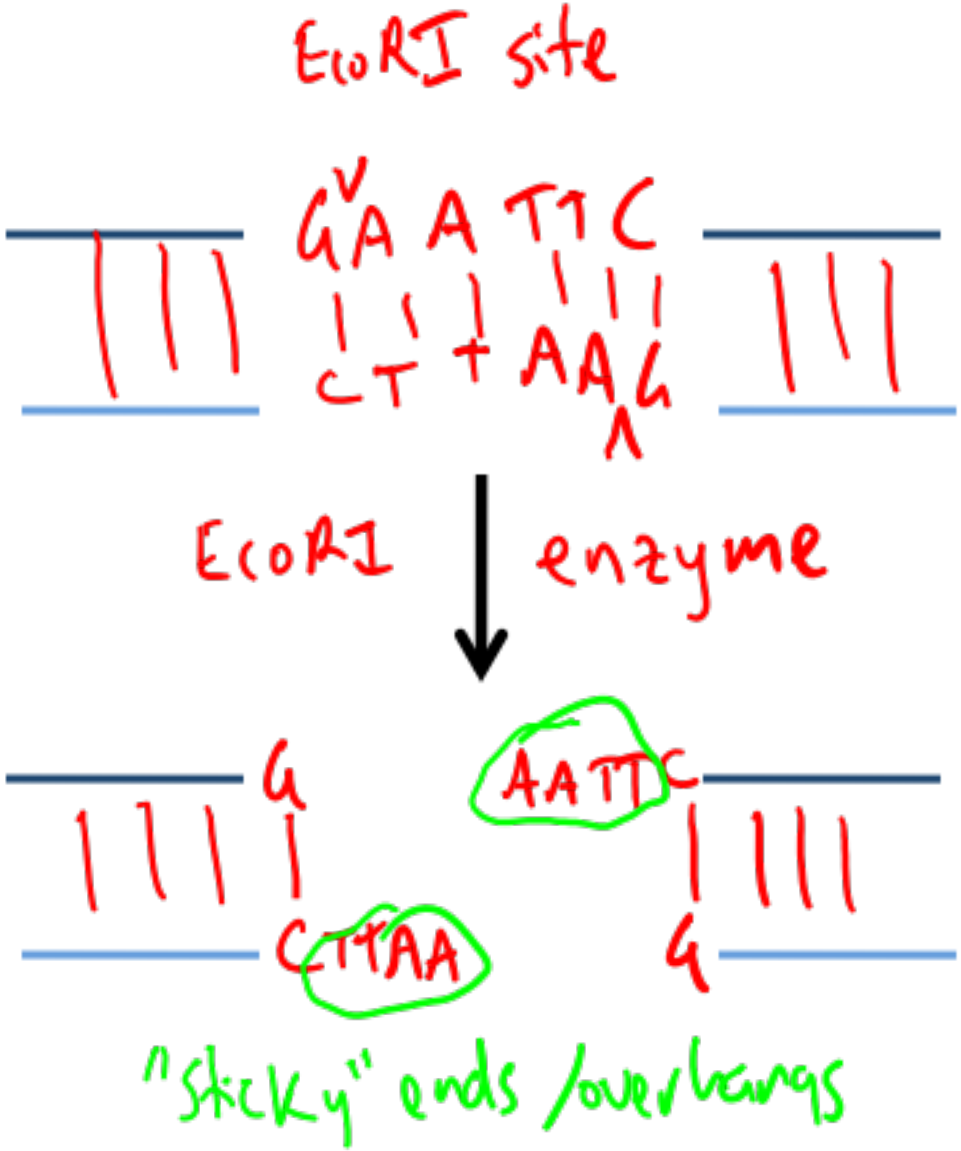
cooperativity ↑



Designing mutagenic primers



Intro to restriction enzymes



endonucleases
→ cut DNA

can be used in
- cloning (directional)
- analysis

also blunt cut
eg. TACGCA
ACGCGT

palindromic sites

Today in Lab: M2D1

- Study inverse pericam at multiple levels
  - * read the wiki
  - * don't limit to 6a loops
- Design primers

  - Amino acid change
  - Silent change — make new unique (or low copy) restriction site

same AA

- Pick reference mutant: D24H, E67K, T79P, M124S
- For next time: start reading paper for discussion
  - time in class on D2 to re-read your assigned section