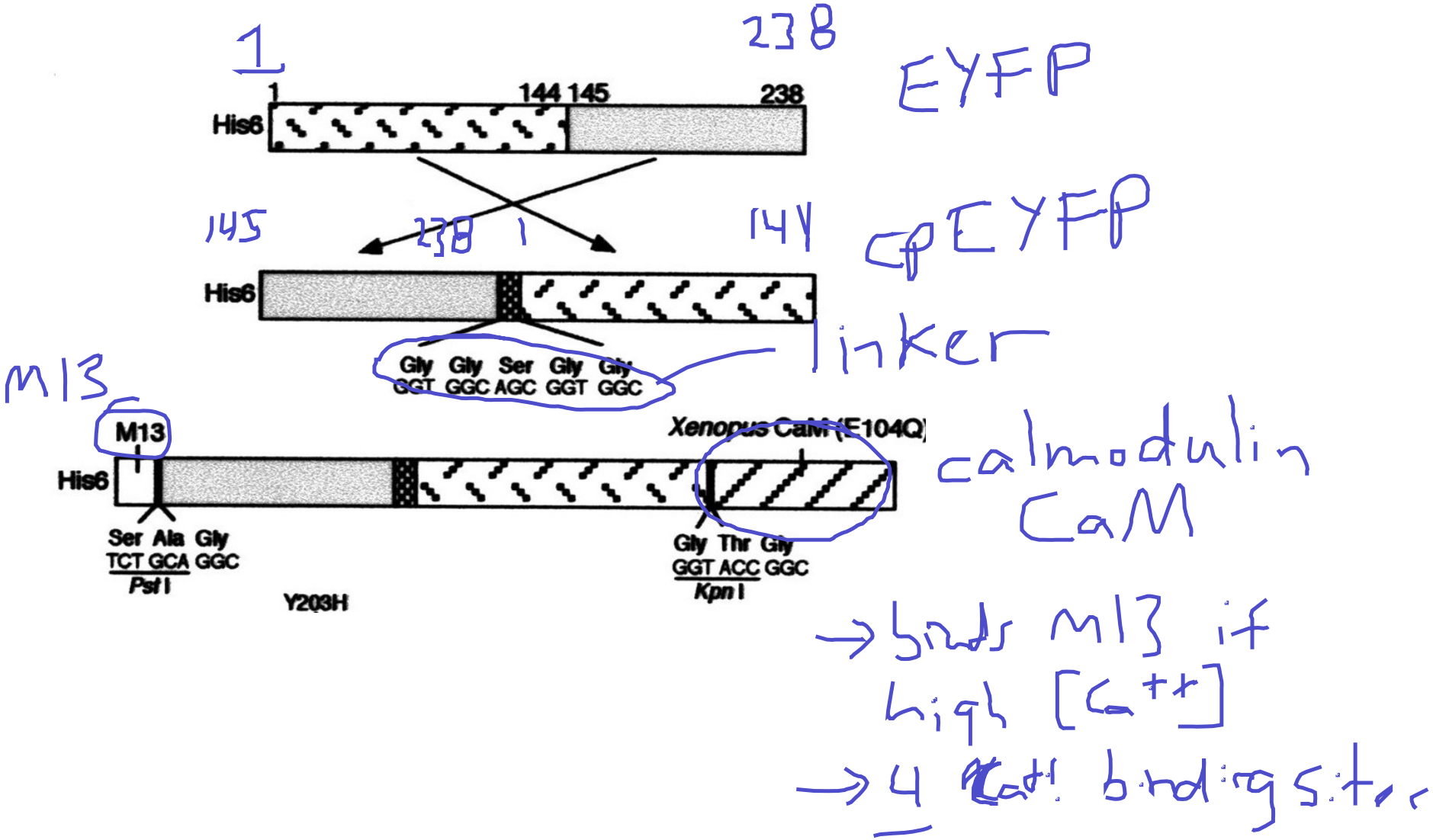
- Announcements
- Pre-lab Lecture
  - Module 2: design overview
  - Primer design for mutagenesis
  - Intro to restriction enzymes
  - Today in Lab: M2D1

Announcements

- Module 1 drafts returned March 22nd/23rd
- Revisions due April 5th/6th (Thu/Fri)
- Draft letter grade may increase by up to 1⅓
- Indicate (highlight, etc.) revisions made

- Introducing… Fahim, your TA for Module 2

Inverse pericam



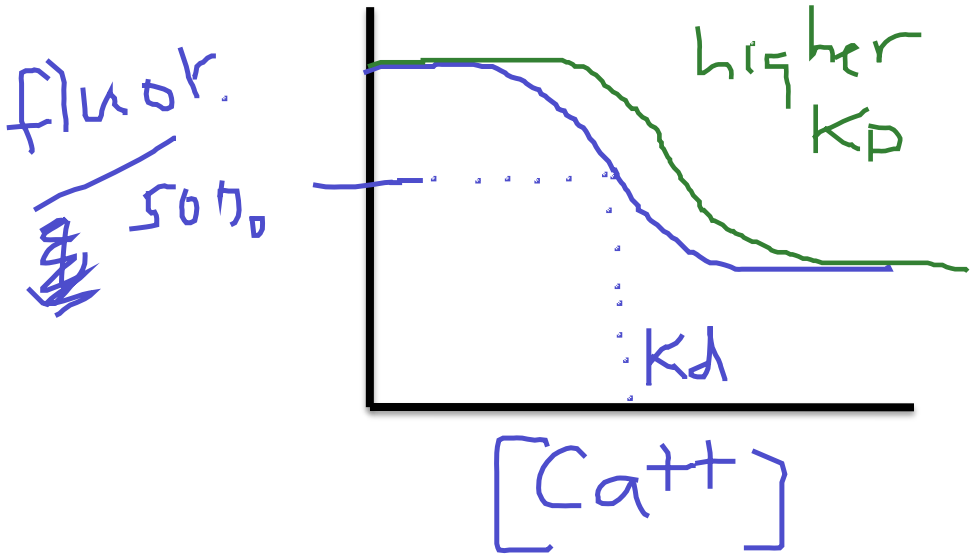
Goal: affect binding properties

vary [Ca++], keep [IP3] constant

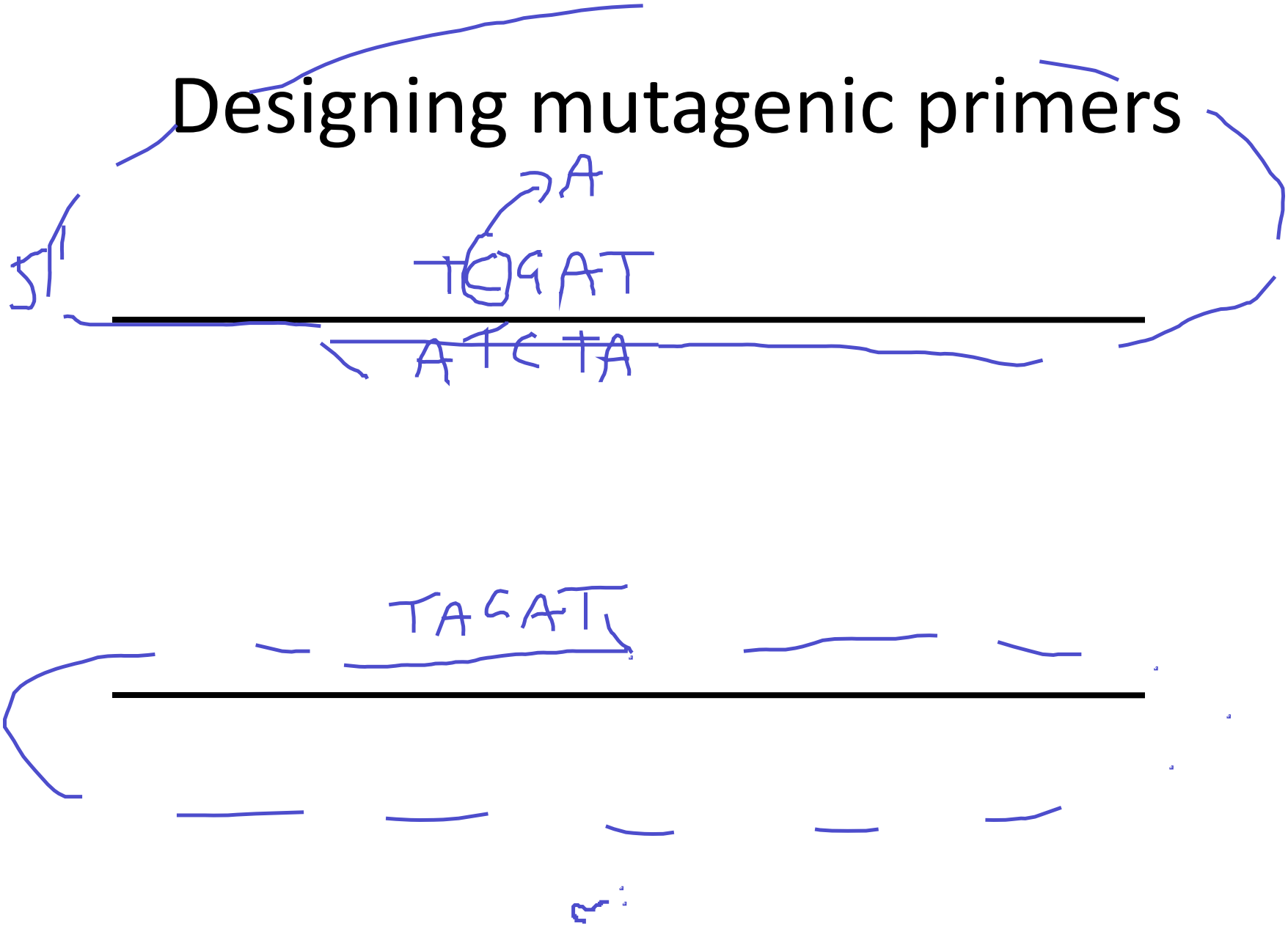
fluor. $\propto \frac{1}{\text{binding}}$

affinity ↓

Cooperativity ↑

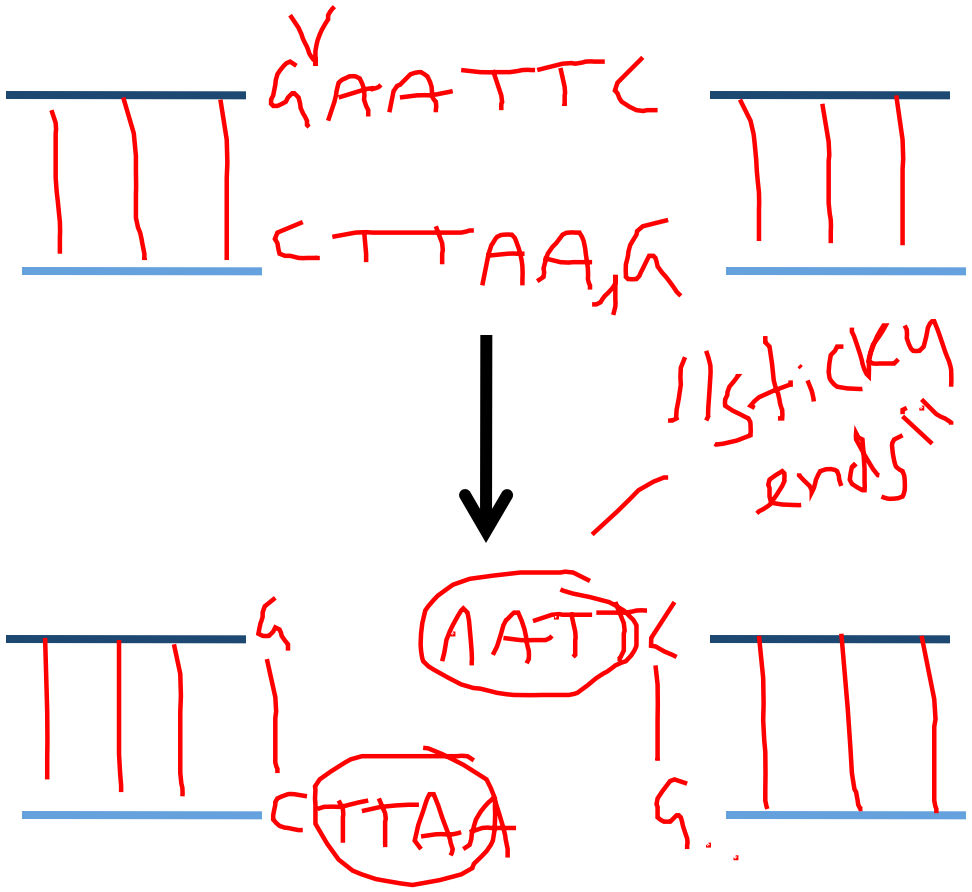


Designing mutagenic primers



Intro to restriction enzymes

EcoRI



endonucleases
→ cuts DNA

can be used
→ in ligations
→ for analysis

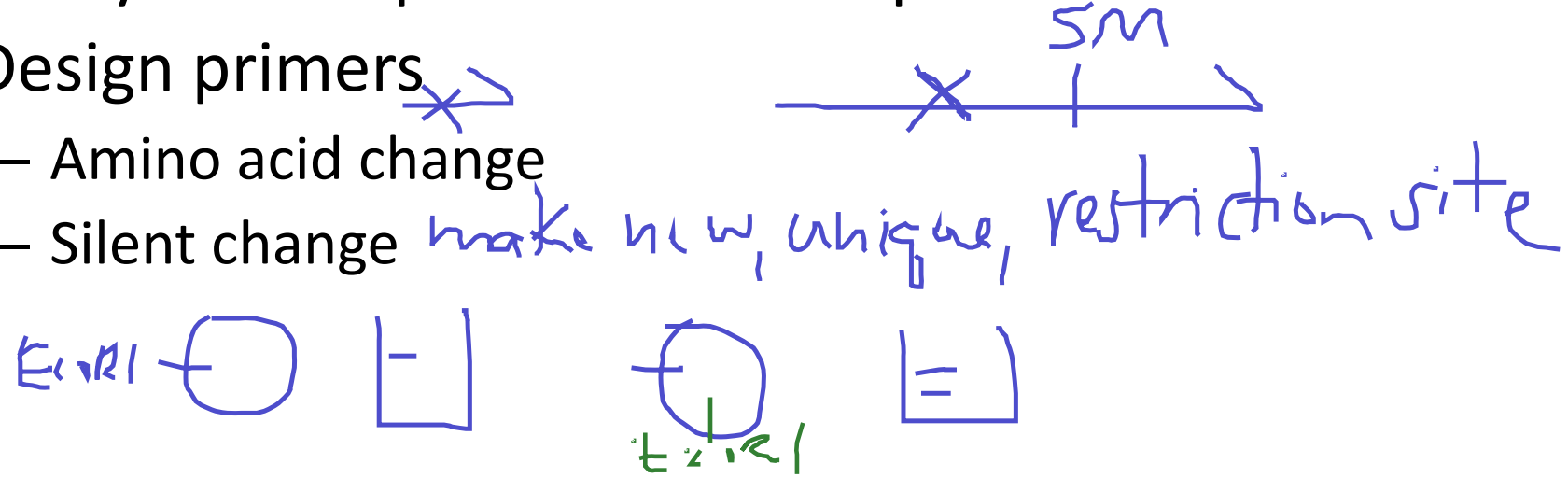
palindromic sites

also blunt cut

TGCAGCA
TCGACGT

Today in Lab: M2D1

- Study inverse pericam at multiple levels
- Design primers
  - Amino acid change
  - Silent change



- Choose positive control: E67K, T79P, M124S
- For next time: read two papers
  - Focus on Nagai; other one is for some history/context
  - Time in class on D2 to re-read your assigned section