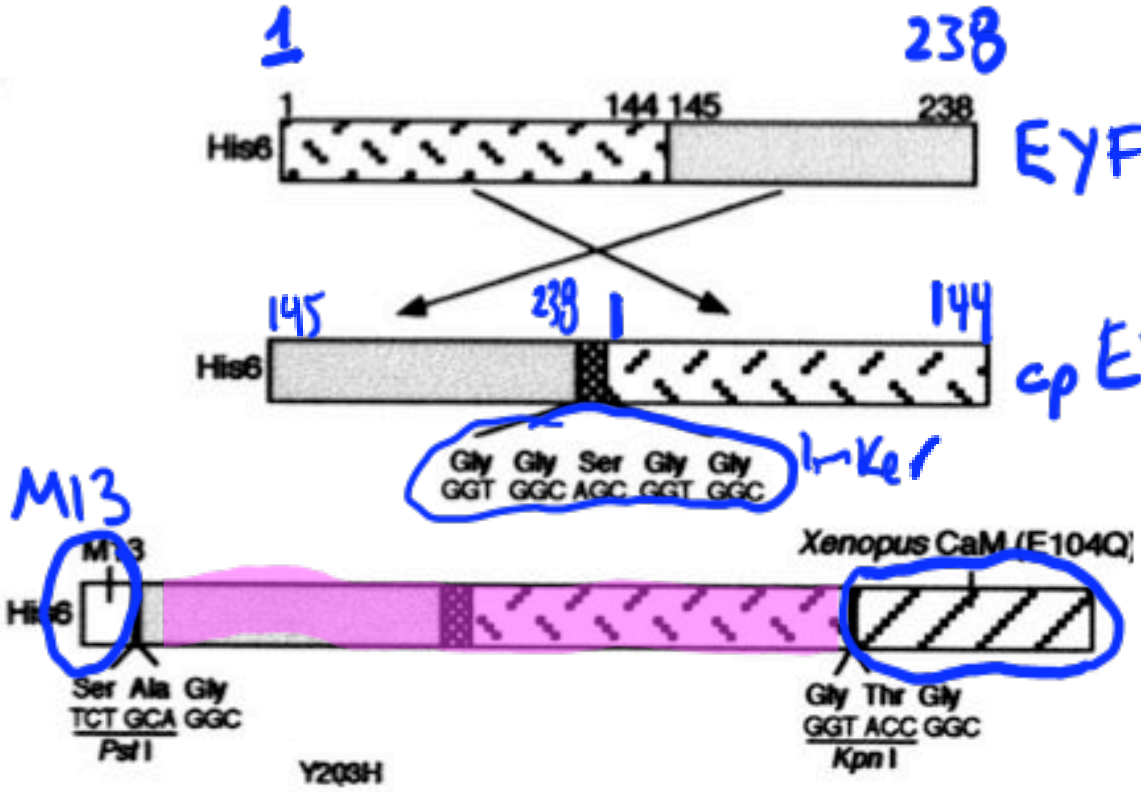
- Announcements
- Pre-lab Lecture
  - Module 2: Design Overview
  - Primer design for mutagenesis
  - Intro to Restriction Enzymes
  - Today in Lab: M2D1

Announcements

- iGEM competition
  info session Mar 11th (R) @ 5 or 6pm <igem.org>
  56-402
- Introducing… Xiaosai, your TA for Module 2

Inverse Pericam

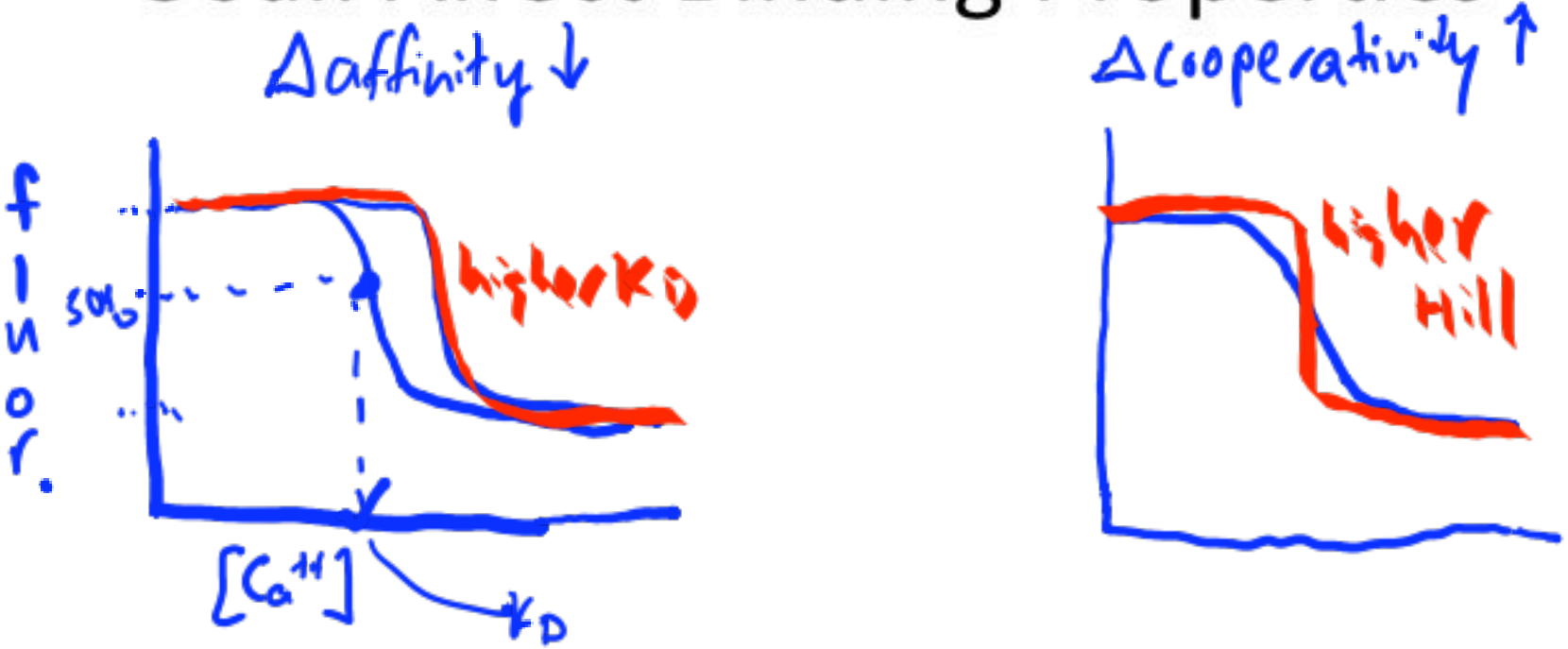


calmodulin CaM

→ binds M13 if Ca^{++}-bound

→ 4 Ca^{++}-binding sites

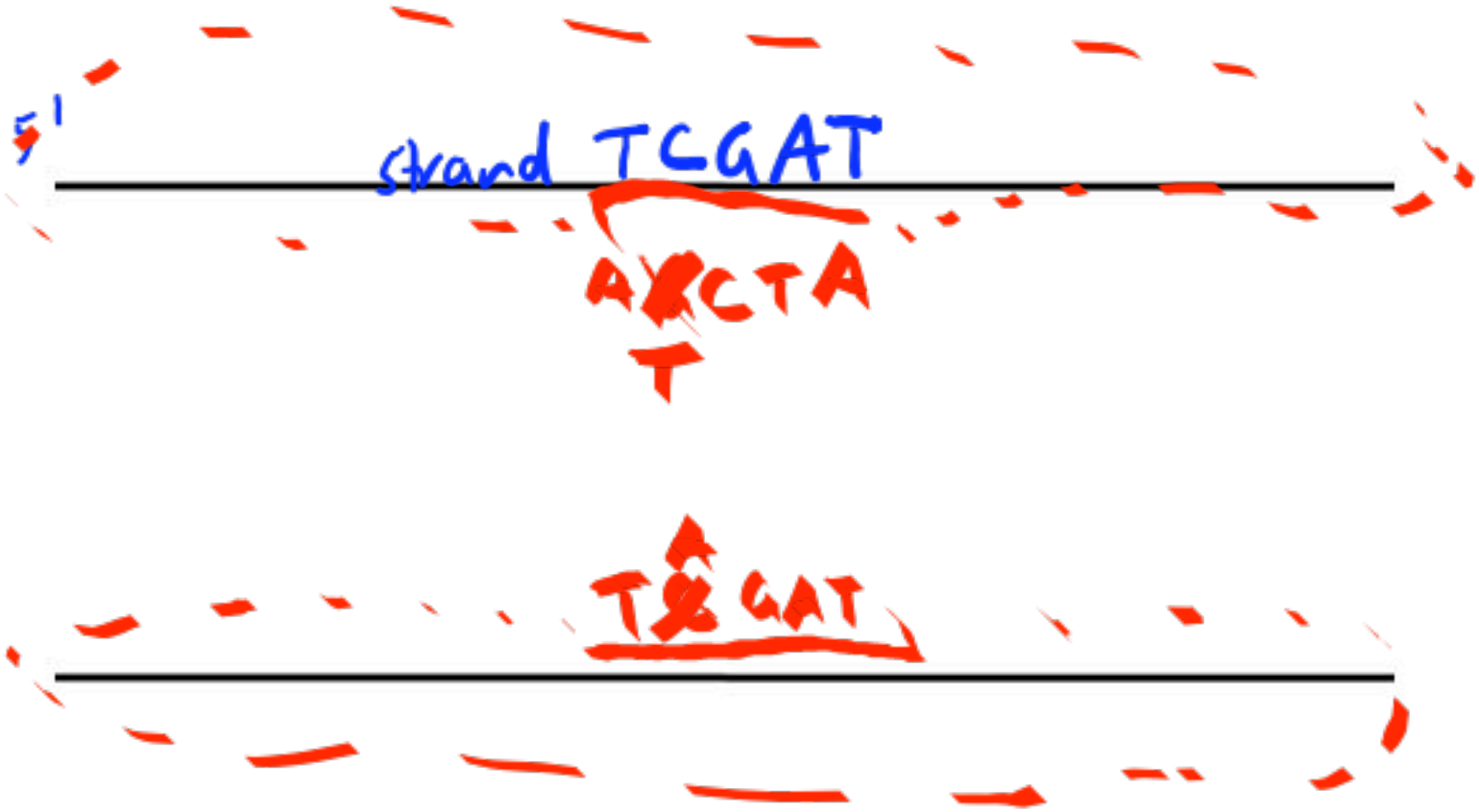
Goal: Affect Binding Properties



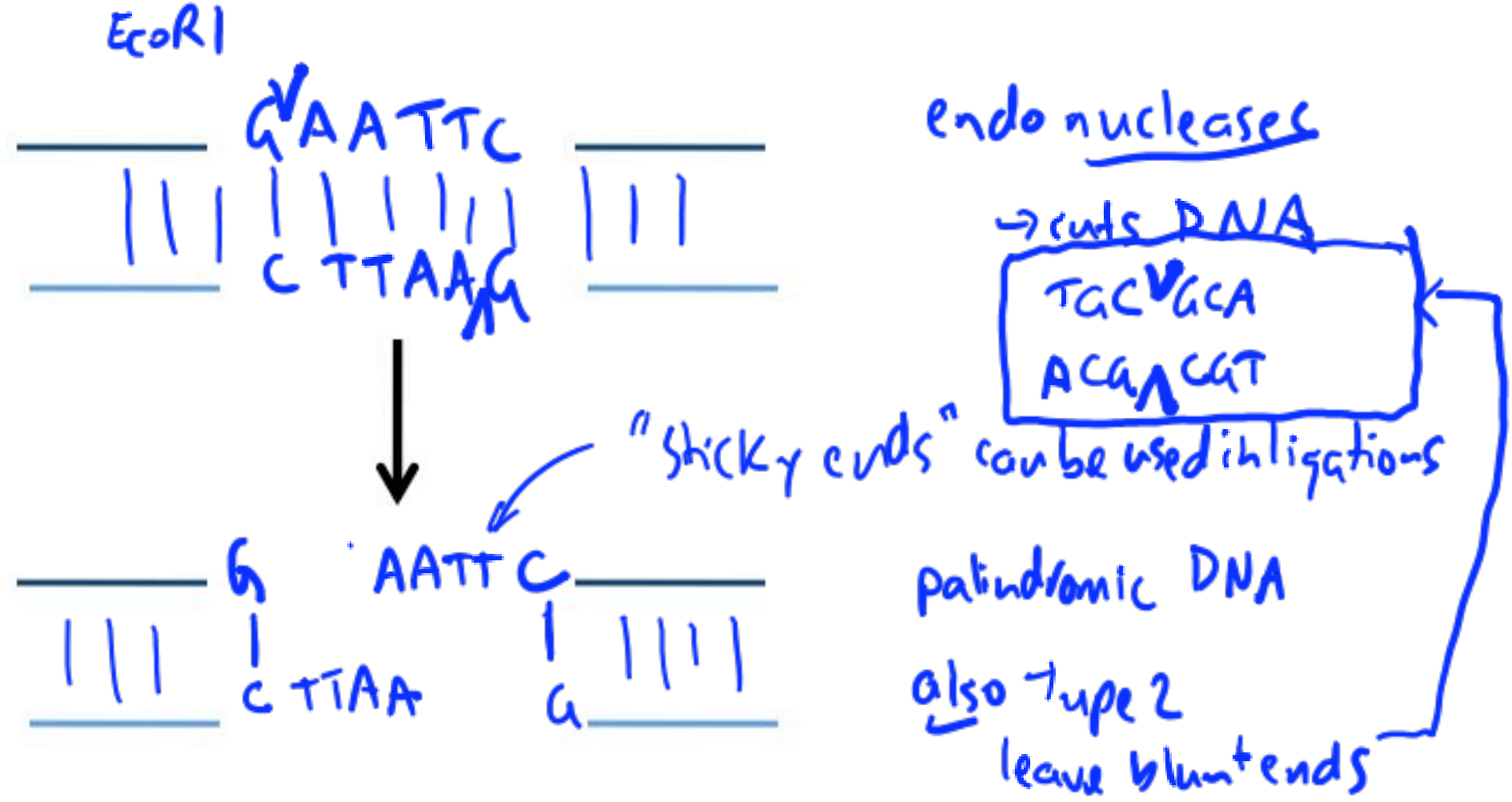
vary [Ca++], keep [CaM] constant

fluor ∝ $\frac{1}{\text{binding}}$

Designing Mutagenic Primers

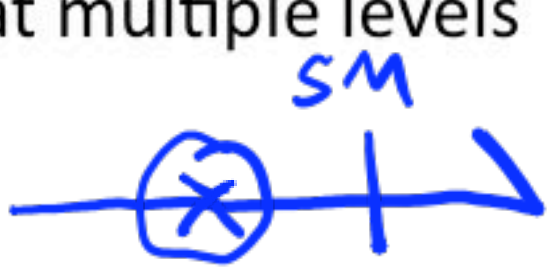


Intro to Restriction Enzymes



Today in Lab

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



make new unique restriction site

example : S101L

exp. → M12 4S

- For next time: begin reading two papers
  - Focus on Nagai; other one is for some history/context
  - Time in class on D2 to finish