

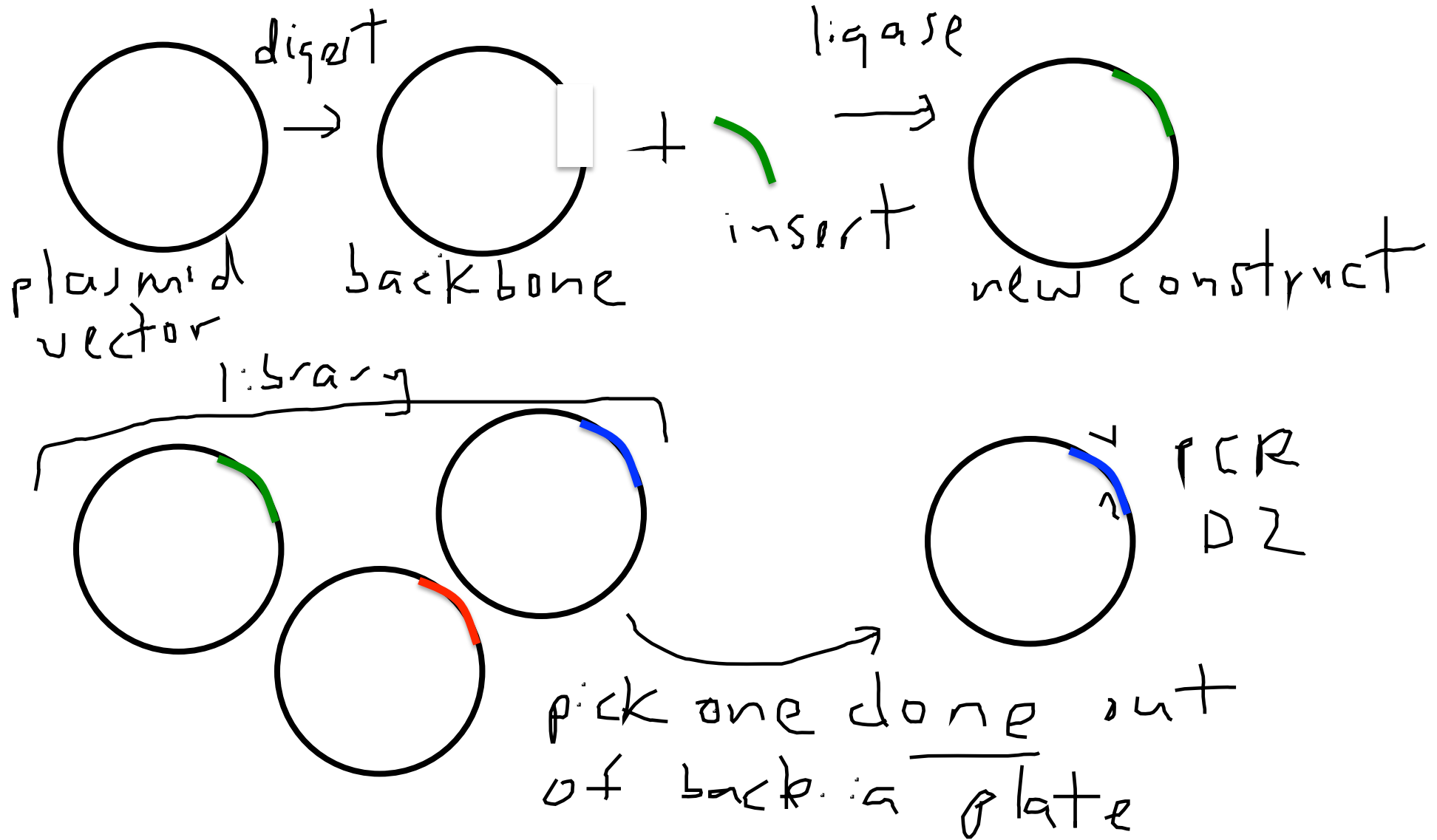
- Announcements
- Lab Quiz
- Pre-lab Lecture
 - ❖ Where are we/going?
 - ❖ Today in Lab: M1D5

Announcements

- FNT feedback
 - MEME exercise: very few folks selected the correct clones; how can you learn which ones are unique?
 - Intro: please read “notes to all”, which apply to most folks
 - Figure/Results: set context, then describe or interpret fully
- Next time: M1D6
 - Meet here to set up IVT
 - Move to 16-336 for talks (~1:30/45 pm)
 - Check out j. club rubric in advance!
- FNT:
 - Mfold analysis due D6 or D7 depending on your j. club day
 - First *required* reflection is j. club self-eval

+ writing help
+ OH plan

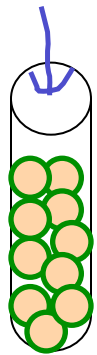
Preparing DNA library



Column separation

- Why did we heat the RNA first? *structure*
- What happens at each step?

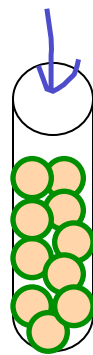
1. RNA mix



some bind

*↓
some elute
(of each)*

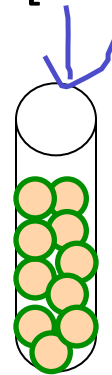
2. Wash (SB)



↓ (elute)

*more 6-5
than 8-12
(we hope!)*

3. High [heme]



*↓
elute
8-12*

RNA precipitation and RT-PCR

- RNA precipitation

- Glycogen co-precipitable "carrier"
- Ethanol lowers charge screening
- Salt bind/precipitate RNA

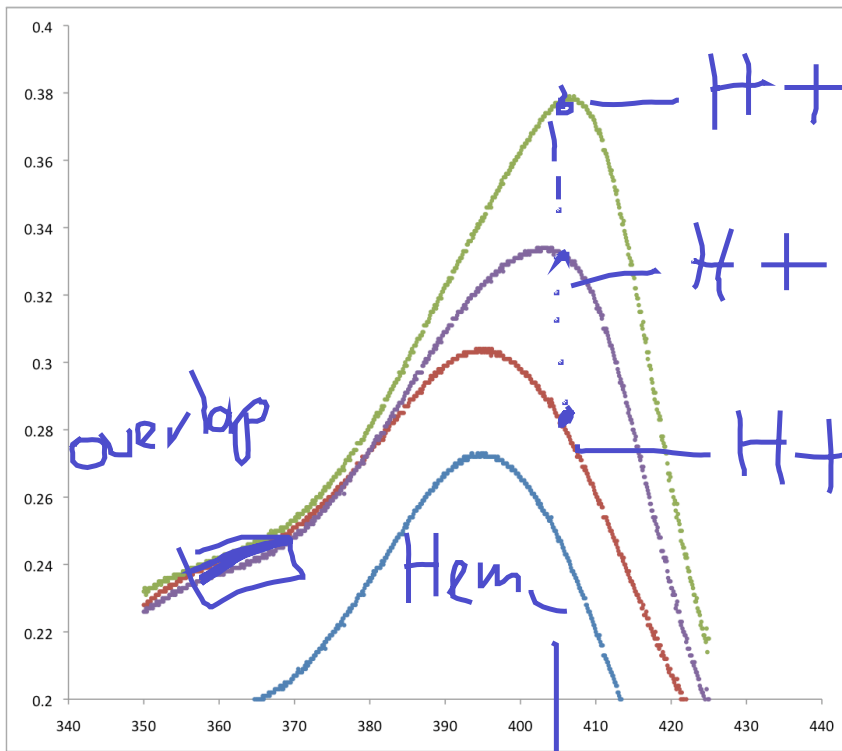


- RT-PCR

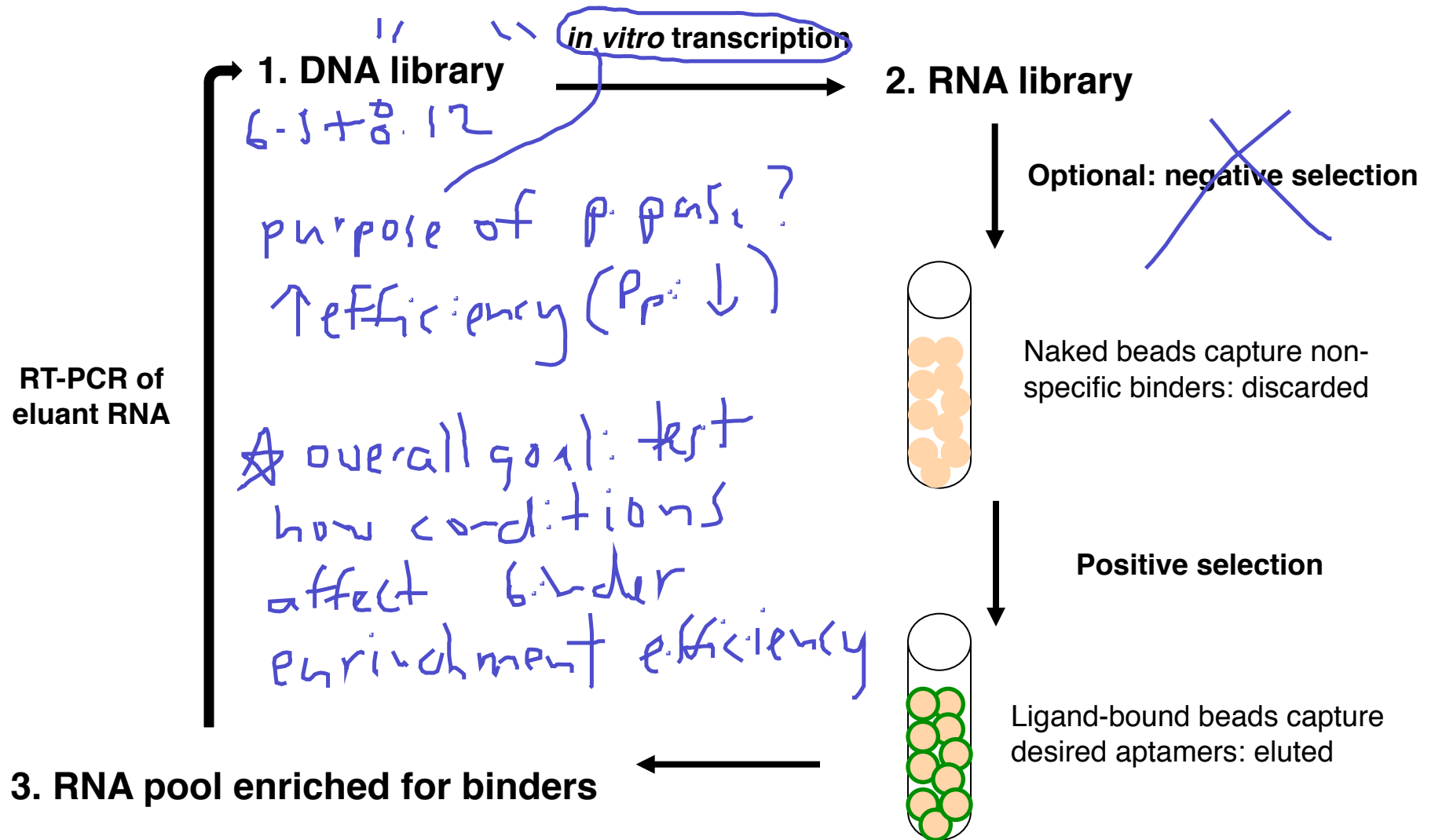
- Step 1: RT RNA \rightarrow DNA s.s.
- Step 2: PCR amplify DNA d.s.
- Assume: same copy rate for 6-5 + 0-12
- Purpose of BSA: prevent heme interference

Preview of binding assay

- Mix RNA and heme ~ 1:1
- Measure peak shift



SELEX Overview



Today in Lab (M1D5)

- Still working with RNA (at first) – careful!
- Collect precipitated RNA, set up RT-PCR
 - check EtOH removal with us
- WAC session ~3p
 - Workshop using student examples
- Biosafety talk by Martha Adams from EHS ~4p
- Prepare samples to run on gel