- Announcements
- Lab Quiz
- Pre-lab Lecture
 - Writing a Figure/Caption
 - In Vitro Transcription
 - Today in Lab: M1D3

Announcements

- No lab next Tuesday (Monday schedule) or Wednesday – see you in a week!
- Next time in lab is packed
 - Very short quiz + pre-lab lecture
- FNT: Lots! Reading and calculations for Day 4, practice figures, writing exercises.



Figures: Style and Scope

- · Title: concise, inform a tive a gives overall qual/result
- Caption: gills context for result, from big to small
 Introduce what are we looking at
 Include just netwods needed to understand theresult

 - Define all elements (eg, DAM bdler)
 - Cover primarily facts not interpretation en, observed/expected sizes
- · Aesthetics simplicity, clavity -> at a-glowy labeling

Figures: Example

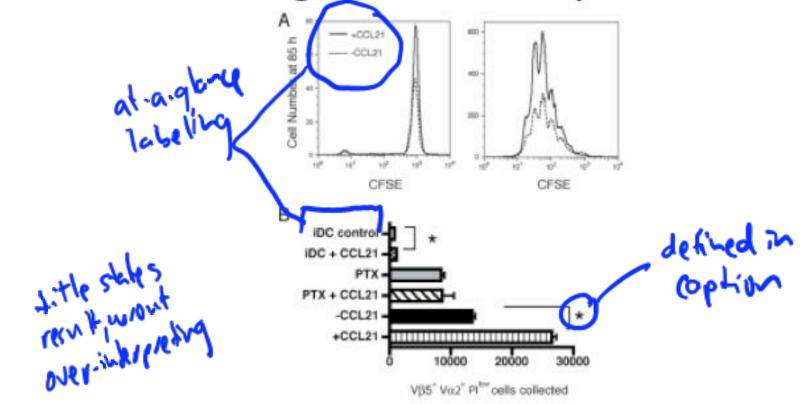
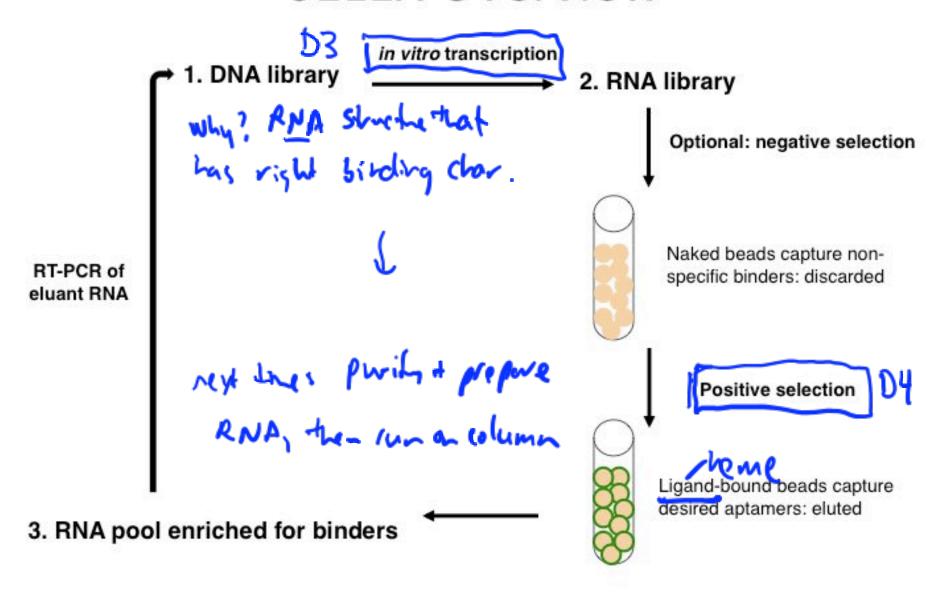


Figure 3 CCL21 impacts naïve T cell proliferation under conditions of rare Ag-specific T-DC encounters. Co-cultures comprising 9% OVA-specific OT-II CD4' T cells, 81% C57Bl/6 CD4' T cells, 5% OVA-mDC and 5% iDC with/without CCL21 were analyzed by flow cytometry at 85 h. (A) Sample CFSE histograms are shown for control (left, iDC only) and experimental (right, with OVA-mDC) conditions. (B) OTII cell recovery for all conditions is shown. Ave ± std. dev. for 3 wells per condition. [* indicates bracketed conditions statistically different (p ≤ 0.05)] (A-B) are from 1 representative of 5 experiments.

SELEX Overview



In vitro transcription find regions fixed region (Hind III) var! able 7 LNA Polymose bad has GACTCACTATAGGGTACTT... DNA sense strand transcribe RNA; GGG V

Cartoons from Niles Lecture 2.

PCR vs. IVT

PCR	IVT
DNA plasmid template	DNA fragment (linear)
Primers	not needed!
dNTPs	NTPS
Taq DNA polymerase	77 RMA polymerase
Buffer, Mg ions	Similar

Today in Lab

- Working with RNA
 - Gloves on, keep clean
- Set up IVT rxns
 - Run for 4 hrs, note your start time up front
 - Stored frozen till next time
 - Return the rest of your DNA, too!
- Meanwhile, journal article discussion
- Also sign up for column conditions