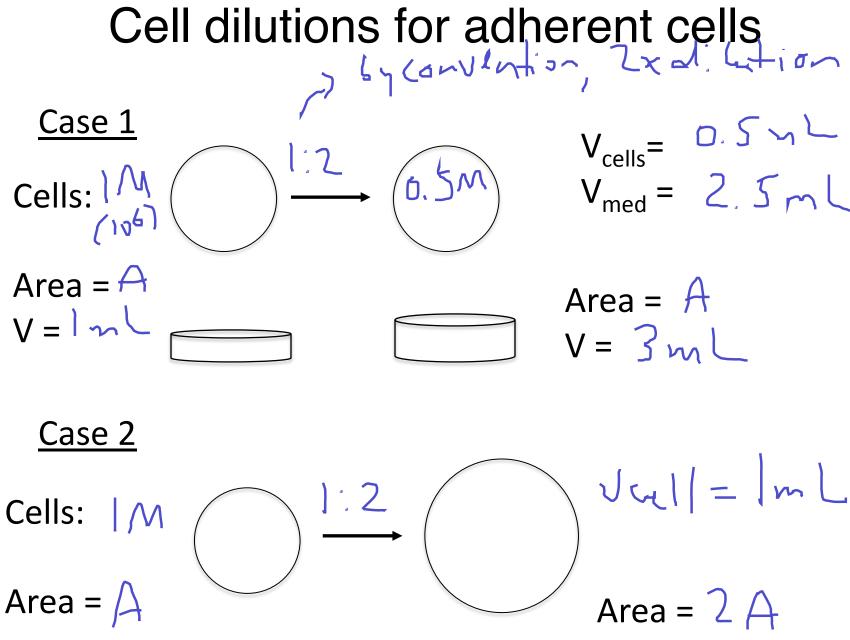
- Announcements
- Quiz (D2 and D3)
- Pre-lab Lecture
 - Cell dilutions
 - * RT-PCR
 - Today in Lab (Mod 3 Day 4+)

Announcements

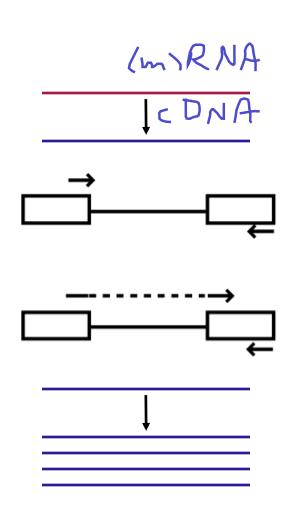
- M2 report returned today (by email)
 - 1 week to revise for up to 1 letter grade increase
 - comments from Agi: methods/results; Alan: the rest
 - review FNTs too (e.g., avoid "positive control" framing)
- If going to TC second, during down-time can
 - prep RNA area
 - work on Module 3 report (viability analysis)
 - other as you see fit
- RNA work: double-check today's protocol for when to take fresh collection tube



RT-PCR recap and modifications

- Goal: determine relative gene expression levels of CN II and CN I in two culture conditions
- RT = reverse transcriptase
 - what does this enzyme do?
 - using non-specific primers why?

- Unique primer design needs
 - how to isolate transcript...
 - ... but not genomic DNA?
- What kinds of controls are desired?



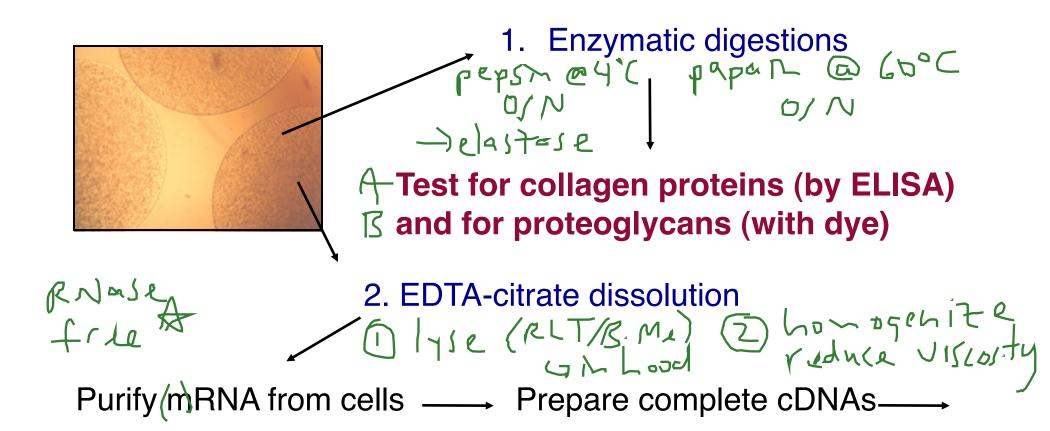
RT and PCR controls

- RT step
 - no sample won-specific contamination
 - no RT + race genomic DNA
- PCR and analysis step
 - reference transcript: housekeeping gene

- expected to be constant for mall conditions
- controls for starting amount of RNA

- internal/co-amplified would be best, but complicated!

Module overview: 2nd half



Next time run qPCR for CN II, CN I, and 18S RNA.