

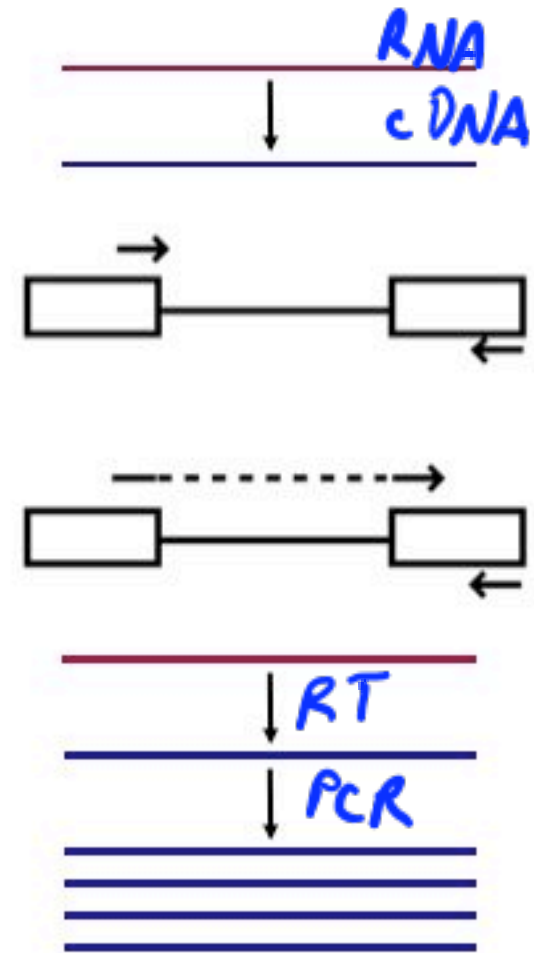
- Announcements
- Quiz
- Pre-lab Lecture
  - ❖ RT-PCR
  - ❖ Today in Lab (Mod 3 Day 4)

# Announcements

- Module 2 report return
  - Revision due in 1 week
  - General comments → more during lecture 5
- During down-time today
  - Prep RNA area
  - Work on Module 3 report (viability analysis) *DS protocol*
  - Other as you see fit

# Day 4: RT-PCR recap

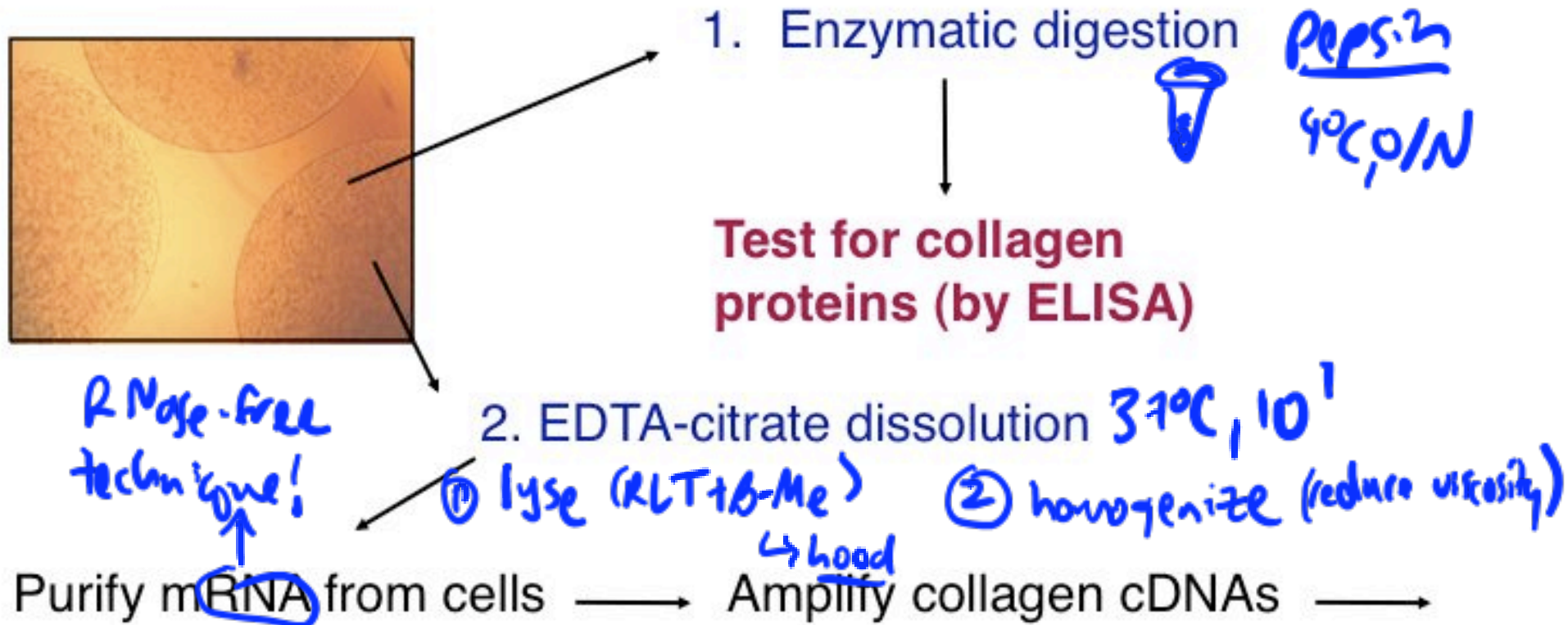
- RT = reverse transcriptase
  - what does this enzyme do?
- Unique primer design needs
  - how to isolate transcript...
  - ... but not genomic DNA?
- RT and PCR can be done in one reaction or two
  - enzyme de/activation by temperature
  - hot start enzymes in general



- What kinds of controls are desired?

• internal control w/ a co-amplified housekeeping gene → control for starting amount(s)  
GAPDH

# Module overview: 2<sup>nd</sup> half



Next time run a gel to compare collagen I and II transcript levels, normalized to GAPDH