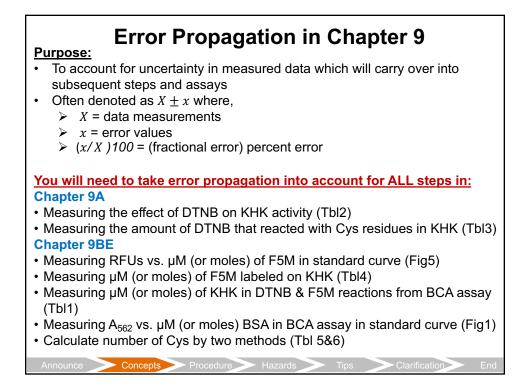


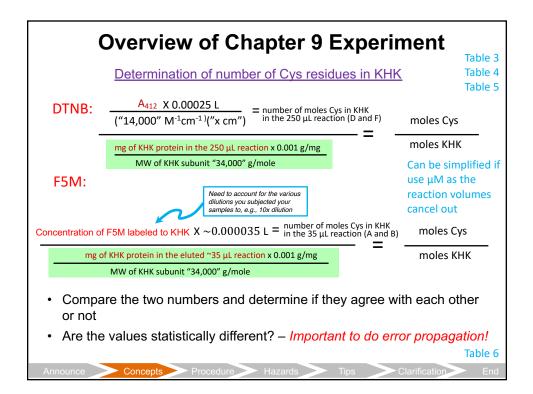
Chapter 9 Calculations: Comparing two methods of protein labeling

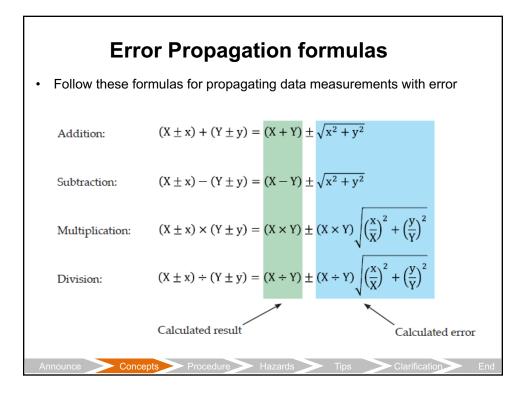
- Figure 1: BCA standard curve
- Table 1: Protein Concentration (µM) for both DTNB and F5M reactions
- Figure 2: Effect of DTNB on KHK rates.
- Table 2: Effect of DTNB on KHK specific activity
- Figure 3: Effect on Coupled assay of [PK].
- Figure 4: Plot of all **DTNB** reactions.
- Table 3: Calculate µM Cys from DTNB data.
- Figure 5: F5M standard curve
- Table 4: Calculate µM Cys from F5M data
- Table 5: Calculate the number of Cys per KHK molecule by these two different labeling methods

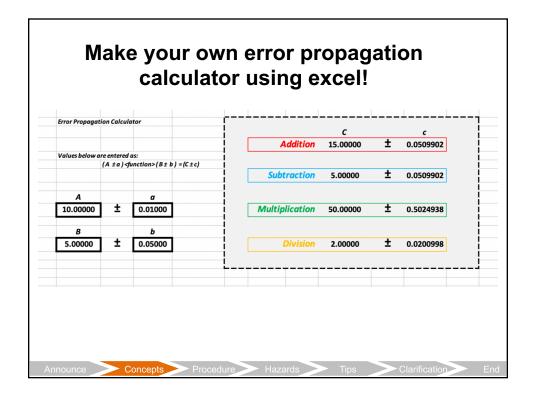
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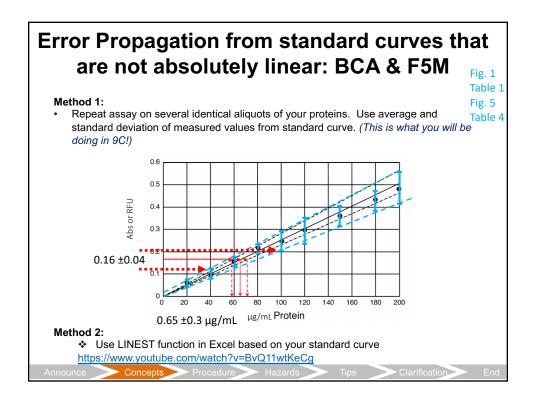
• Table 6: Show calculation of error propagation

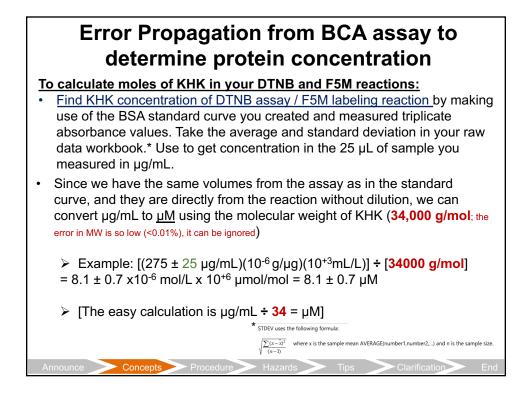


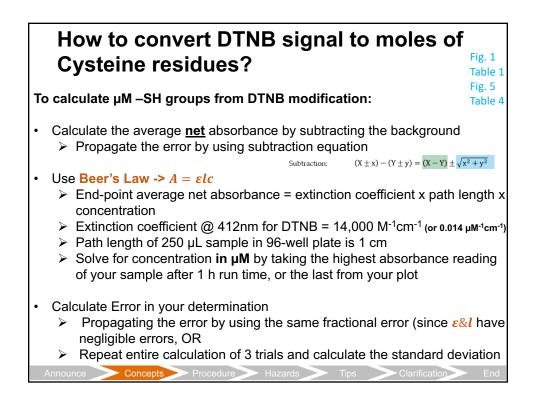


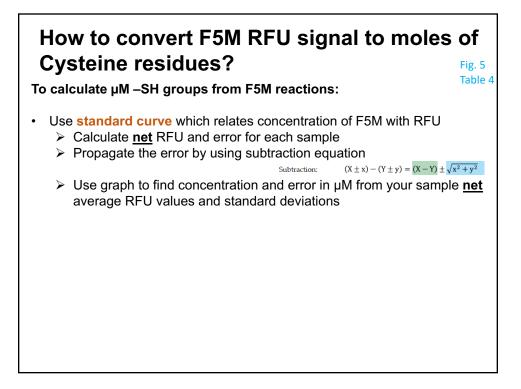


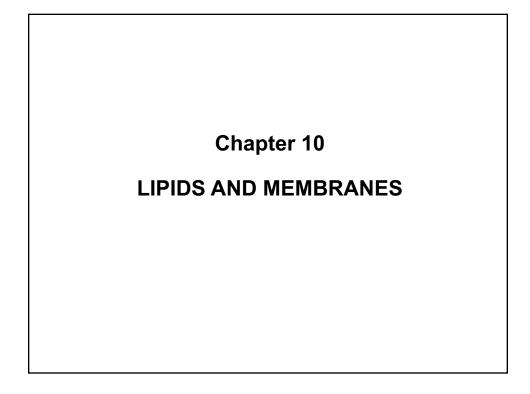




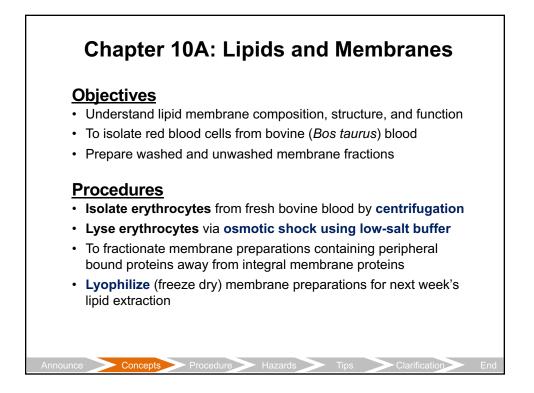


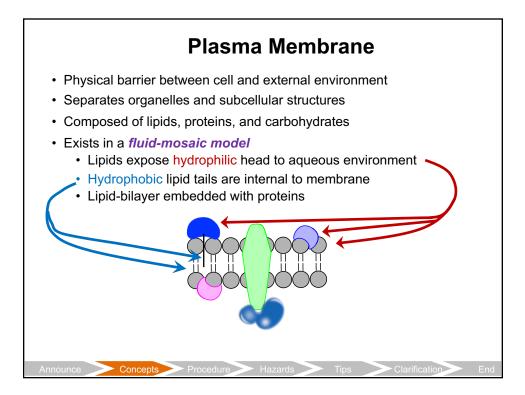


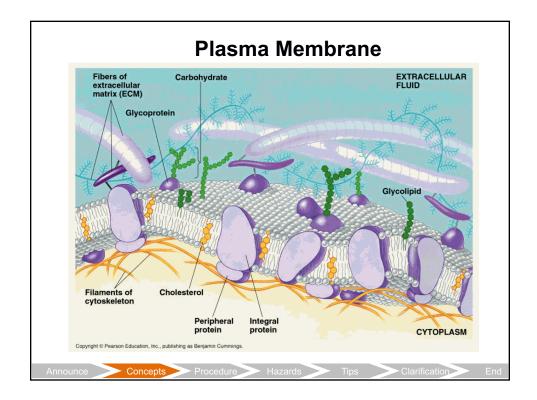


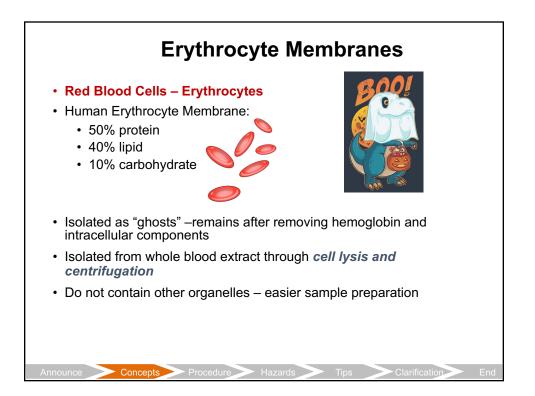


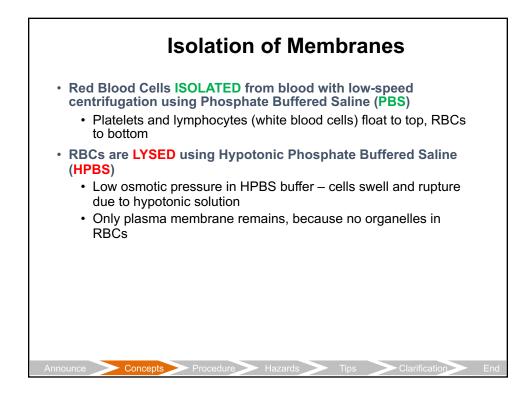
Chapter 10: Overview
• Week 1 – 10A:
 Isolate and wash erythrocytes and plasma membrane fractions (washing & centrifugation)
• Week 2 – 10BC:
 Determine yield of membrane, lipids, and composition of lipids (TLC & cholesterol assay)
• Week 3 – 10D:
 Separation of proteins by SDS-PAGE and immunoblotting
• Week 4 – 10E:
 Visualization of SDS-PAGE and immunoblot results (<i>i.e.</i> Western Blot analysis)
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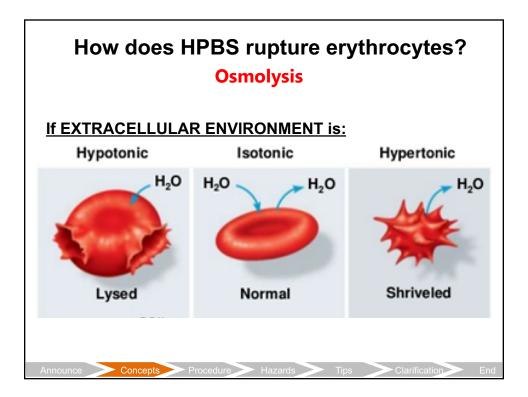


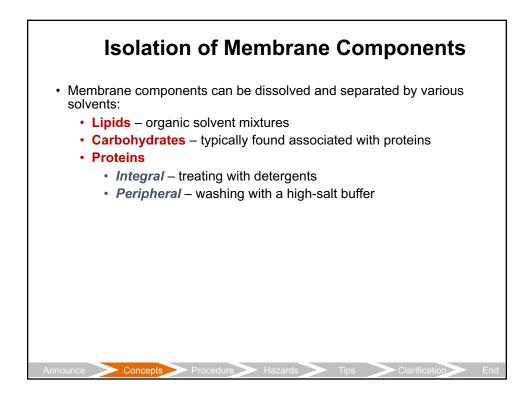


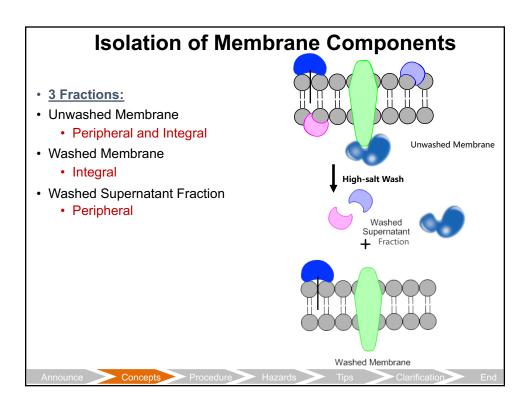


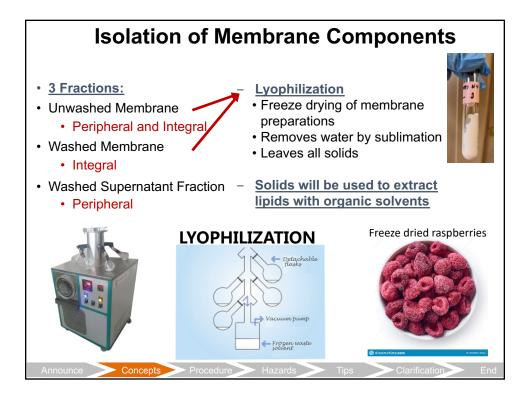


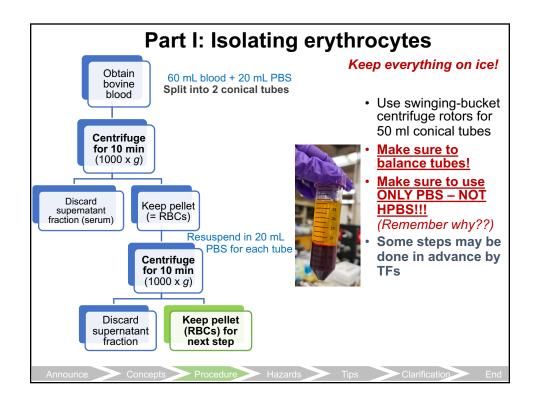


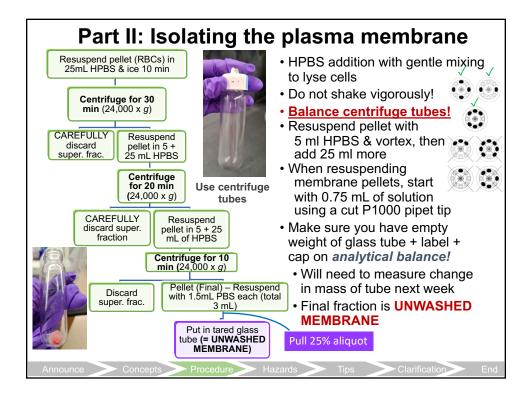


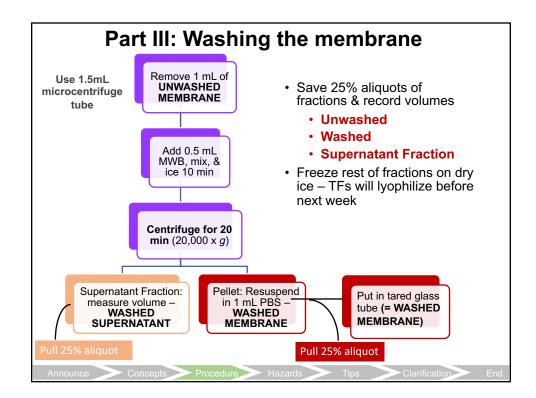


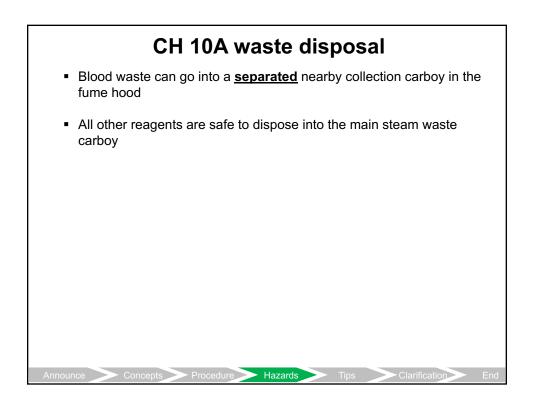


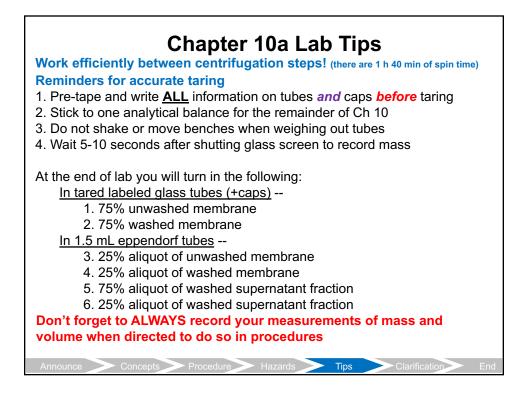


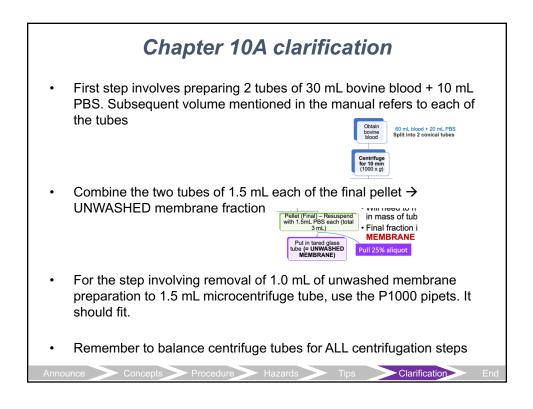












Chapter 10A
Before the lab period, you should have:
 ✓ Completed your Pre-lab Write-up and submit on Gradescope ✓ Title, purpose and procedures ✓ Remember to include: ✓ Flowchart for your membrane isolation procedure ✓ Note masses to record
 ✓ Masses for <u>tared</u> Pyrex <u>tubes & caps</u> for 75% washed & 75% unwashed membrane ✓ Note <u>volumes</u> for all six fractions ✓ (25% & 75%) x (Unwashed membrane, washed membrane, and washed supernatant fraction)
At the end of lab, you should have:
 ✓ Turned in your <u>six</u> aliquots to your TFs ✓ Unwashed and washed membrane glass tubes, "parafilmed" ✓ Four eppendorf tubes and glass tube caps in a conical tube ✓ Washed your high-speed centrifuge tubes Clean (do not throw them away in the trash)
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