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| **Work Completed****-** Resubmitted High MW HA large batch sample and got results. **-** Large peak from first sample did not appear on second sample **-** Numbers still yield a degree of substitution that is impossibly high**-** Continued to sort out the degree of substitution calculation and found that the degree of substitution is to high and is above error range.**-** Checked previous papers for information on amount of PEG to use but found that later papers use malemide and peptides more like the the MITCH gels from Dr. Heilshorns lab**-** Successfully formed a gel. The gel formed very slowly. I believe this was due to the problem with how much PEG to use have since fixed this problem.**Work for Next week****-** Continue writing materials and methods section**-** Sort out Degree of substitution problem to properly determine how much material to use to form the gels**-** Find NMR of HA to better understand what each peak corresponds to in order to verify substitution calculations.**-** Run Swelling experiments**-** Time permitting I would like to also work on the rheometer next week, but I am more committed to finishing the swelling experiments**-** Get new picture to Dr. Leach for the website |