Progress Report 5

- **Title:** FNA Modification
- **Names:** Janie Goldsworthy (Communications), Kristi Hinner (BSAC), Nick Kortan (BWIG), Crystal Marshek (Leader), Dr. Elizabeth Burnside (Client), Prof. John Webster (Advisor)
- **Date:** 10/9/02-10/15/02
- **Problem Statement:** Modify the currently used FNA needle to both disperse and collect more cells at the removal cite.
- **Restatement of Team Goals:** Look into another shop doing our work for us so we don't have to wait the 4 weeks for the ME shop. (Nick) Start pulling together mid-semester presentation. (Nick, Janie, Kristi, Crystal)
- **Summary of Accomplishments:** Contacted Physics shop to see if they could do work on parts. They can't because they don't have equipment appropriately sized to work on our project. They did suggest a website that custom manufactures drill bits. We are in the process of contacting them for a catalog and more information. (Nick) We contacted Prof. Webster's grad student Yi Chen for help with our histological/cytological questions. She was too busy to meet this week, but would like to meet with us next week. (Kristi) Contacted client for presentation and suggestions for animals to test on. Contacted additional drill bit manufacturers for help and additional 'free' drill bits (more are on there way). (Janie) Visited the ME shop for additional information on different methods available to lengthen the drill bit, which of these methods was chosen and why. Contacted Dr. Annette Gendron, a histologist, for information on what we would need to do to 'count' the number of cells in various samples we would collect. She offered to allow us to use her lab tech to stain any samples we collect, making it easier to read the sample. Contacted RARC to ask for additional help on live animal use for testing. They were willing to help us with two areas: 1) help us fill out the paperwork to file a protocol for the animal use we were discussing and 2) suggest animals that would have good representations of our 'site of interest'. (Crystal) Worked on presentation for 2 hours. (Crystal, Janie, Kristi, Nick)
- **Statement of Team Goals:** Take the syringe to the ME shop so they can shorten the 'needle' with a diamond cutting wheel allowing us to do testing using the current drill bit without extending it so some testing can begin. (Crystal) Get together with Yi Chen for histology/cytology information. (Kristi) Contact manufacturers to make tell them what we are lengthening the drill bit for and to see if that makes a difference in theirs initial response of 'no way can they lengthen the drill bit because it will be too weak'. (Janie) Figure out a protocol for determining if the two different collection techniques (old vs. new) do indeed collect different sample sizes and how different. (Nick)
- **Project Schedule:** Lengthen drill bits, Begin testing, K-12 outreach
- **Difficulties:**
- **Activities:**
  - Janie – Contact client (0.25 hr), contact drill bit manufacturers (0.5 hr), continue looking at drill companies (0.75 hr) and work on presentation (2 hrs).
  - Kristi – Contact Yi Chen (0.25 hr), work on presentation (1 hr)
  - Nick – Notebook (0.5 hr), meeting with physics shop (0.75 hr), work on presentation (2 hr)
  - Crystal – Progress report (0.5 hr), Met with ME shop to get information on techniques (1 hr), contact RARC and Annette Gendron (1 hr), work on presentation (2 hrs)