

Progress Report 13
Tissue Sample Preparation Device for Biochemical Analysis

Team Members:

Sara Alford (Team Leader)
Christine Koranda (Communications Rep.)
Carla Maas (BWIG)
Ryan Roth (BSAC)

Client:

Jeff Ross and Charles Tessier
University of Wisconsin - Medical School
Department of Oncology

Advisor: Paul Thompson

Date: April 22 - 29, 2003

Problem Statement: To design a device that completes the preparation process done manually to prep a tissue sample for biochemical analysis. The device should freeze the tissue (with liquid nitrogen), and grind it to a powder. Sample should be easily collected.

Restatement of Team and Individual Goals:

Team:

1. Finalize decision on how to quantify testing and carry out testing with mouse liver
2. Determine days for testing
3. Divide paper and poster parts
4. Individually work on assigned paper and poster parts
5. Poster presentation FRIDAY!

Carla:

1. Consolidate the paper with Sara
2. Update website, put autocad files online, presentation files, and paper.

Christine:

1. Organize and direct poster effort.

Ryan:

1. Leading and organizing testing. Coordinating with group on testing times and procedure.

Sara:

1. Consolidate paper with Carla

Summary of Accomplishments:

1. Testing time determined, protocol established

2. Poster outlined and parts distributed
3. Paper outlined and parts distributed

Team and Individual Goals for Next Week:

Team:

1. Testing Tuesday afternoon in Dr. Ross' lab
2. Write up paper
3. EXPO forms to Paul
4. Poster work, meeting on Thursday night.

Carla:

1. Final additions to the website
2. Compile paper with Sara

Christine:

1. Organize poster display

Ryan:

1. Lead testing and results from testing

Sara:

1. Compile Paper with Carla

Project Schedule:

- Week 1: Group chose same project, client was contacted.
Week 2: Divided tasks, patent proposal, prototype work
Week 3: Patent, EXPO proposal, prototype working, chamber design
Week 4: Patent Meeting, Chamber Design, Circuit Timer
Week 5: Drawing for head and chamber, Circuit Timer
Week 6: Presentation, Drawings for chamber, circuit building
Week 7: Midsemester Presentation Given, Design Notebooks Turned In.
Week 8: Spring Break, Machining Parts.
Week 9: Circuit Work, EXPO Preparation, Insulation work
Week 10: EXPO Preparation, Final modifications to Prototype
Week 11: EXPO Exhibit
Week 12: Plan Testing
Week 13: Testing, Poster, Paper, Wrap Up Project

Difficulties:

Communication has been a little harder since it is mainly by e-mail.

Weekly Hours:

Christine: 2 hours

Carla: 1 hour

Ryan: 1 hour
Sara: 2.5 hours

Total Hours:
Christine: 65 hours
Carla: 70 hours
Ryan: 51 hours
Sara: 66 hours