

# Neurochemical Sampling Device

**Week 14** – April 24 to May 1, 2008

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## **Problem Statement:**

Our goal is to construct a device that protects the microdialysis apparatus used during cranial experiments on non-human primates. This device will free the monkey from the constraints of chairing while the experiment is conducted and will provide a more comfortable and realistic environment for the monkey. The device should be lightweight, durable, and removable to meet the needs of both the researcher and the subject.

## **Restatement of Team Goals:**

We hope to test the apparatus we set up this week, and possibly set up another test to look at torsional forces. We would also like to work on our poster, presentation, and final report. Hopefully our device will be to the stage where we can test it.

## **Summary of Accomplishment:**

We tested the cranial pedestal interface and demonstrated that it would take more force than we could apply horizontally to break the interface. We also created a prototype out of PVC and did some successful testing on it. Lastly, we finished the poster.

## **Statement of Team Goals:**

This week our team would like to practice our presentation for Friday and finish up the final report. We would also like to give our prototype to our client.

## **Difficulties:**

There was some miscommunication about the building of the prototype, so we weren't able to have the aluminum device for testing and it is not as detailed as we originally designed it. However, we were able to make our own model from PVC.

