

Progress Report 7: Neurochemical Sampling

Client

Dr. Ei Terasawa
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Team Members

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Progress Report 1

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Problem Statement:

The purpose of the project is to develop a device allowing monkeys to be free from chairing while experiments are conducted. Direct measurements of neurochemical substances in the brain from free moving non-human primates is significantly important for understanding complex brain function and developing treatment strategies for brain disorders in humans. During the last 3 semesters, four BME students worked hard to design and built two devices. However, the device still needs further refinement for actual application. We have a new idea to approach. The development of the device requires creativity, intellectual exercise, and hard work.

Summary of Accomplishments

- Gave Mid-Semester Presentation
- Finalized Design Notebooks
- Emailed Client to obtain dimensions of various monkeys

This Week's Goals

- Analyze dimensions given by client
- Create solid works image using dimensions given by client
- Look for various materials to use for design
- Try to estimate total weight

Individual Goals

- All team members need to research materials

Activities

- 10-16-2009: Gave presentation (2h)
- 10-17-2009: Finalized Notebooks