

Project # 18 – Development of a Device for Neurochemical Sample Collection from Freely Moving Monkeys

Team Members: Cole Drifka (Co-Leader), Lauren Eichaker (Co-Leader), Ben Fleming (BWIG),
Adam Pala (Communicator), Sarah Springborn (BSAC)

Progress Report: 3

Week: 3(February 14– February 20)

Primary Contacts	Information
Client: Dr. Ei Teresawa	Department of Pediatrics, Primate Center Building Email: terasawa@primate.wisc.edu Phone: (608) 263-3579
Advisor: Professor Brenda Ogle	Assistant Professor, College of Engineering, Biomedical Engineering Email: ogle@wisc.edu Phone: (608) 265-8267

Revised Problem Statement:

To improve on the device created last semester that protects the microdialysis apparatus used during cranial experiments on non-human primates. This involves continued efforts to reduce the weight of the device, secure it around the monkey's head, and better able to cushion the microdrive unit.

Summary of Accomplishment:

Met as a team to compile thoughts and put together the design matrix. Individuals scheduled/read TB tests and read requisite material to move about the primate facility during future testing of the prototype.

Statement of Team Goals:

We have a client meeting this Friday where we will propose our design choices and maybe the design matrix to the client. We hope to finalize design concepts and work on the powerpoint for oral presentation (compile background, design matrix, etc.) after this meeting.

Difficulties:

None

Activities:

		Hours This Week	<input type="checkbox"/> Hours
Cole Drifka	Worked on sketches pertaining to how a conical "helmet" would function with the current silicone rubber interior idea. Also, entertained the idea of using a memory foam gasket around the monkey's forehead.	2	5.5
Lauren Eichaker	Edited PDS, got TB test read, materials research.	1.5	7.5
Ben Fleming	Brainstorming/research, set up website, got TB test.	2.5	5.5
Adam Pala	Got TB test and conducted research.	1	4.25
Sarah Springborn	Got TB test read and compiled design matrix.	0.75	3.75
Team	Met at Wednt Library.	1	4.5

Expenses:

None yet