

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: 11

Week: 7(April 18– April 24)

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:

Finished design, but cancelled “live testing” due to the fact that the design is not as stated in veterinary protocol. The client is not angry; we will carry out quantitative testing at the Chamberlin hall this Friday instead.

Statement of Team Goals:

Carry out quantitative testing 4/24. Repour silicone as noted in veterinary standards for client to carry out “live testing” on their own.

Difficulties:

Silicone and glue did not mould/dry as planned.

Activities:

		Hours This Week	<input type="checkbox"/> Hours
Cole Drifka	Silicone pouring, silicone alterations, foam forming, air bladder construction.	10	42.75
Lauren Eichaker	Silicone pouring, notebook work, final report proofing, client relations/coordination. Went to get polymer department “Thank you”.	5	41.00
Ben Fleming	Silicone pouring, silicone alterations, foam forming, air bladder construction.	9.5	30.50
Adam Pala	Construction: (0.5 hours 4/16 & 2 hours 4/17).	2.5	27.25
Sarah Springborn	Construction (4/16) and worked on final report.	2.5	23.25
Team	Silicone pouring (4/16, 4/17) and air bladder construction.	4	24

Expenses:

2McMaster Carr Supply Co#8595K77, 1 lb Kit RTV SILICONE Casting Compound \$39.08
Watchpartsusa.com LEA309-20SS, Watch Band Leather Heavy 20mm Black \$12.95
Ace Hardware Superstore.com#1241199, Manf#: P74300125-V, FOAM BOARD ADHSV 10.2OZ \$4.49
McMaster Carr Supply Co#7636t31, smooth rod caulk gun \$5.68

Total: \$101.28