

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC)  
**CALIFORNIA STATE UNIVERSITY, BAKERSFIELD**  
9001 Stockdale Highway, Bakersfield, CA 93311-1099

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*MINUTES OF MEETING*

*Friday 12 June 2009*

*DDH A-108*

**Members Present:**

**Scientific Concerns:** Todd McBride, Steve Suter, David Germano

**Non-Scientific Concerns:** Andrew Troup, Stephen Gamboa

**Community Issues:** Eugene Couture, Debby Kroeger

**Safety and Risk Management:** David Beadle

**Veterinarian:** Mylon Filkins

**Members Absent:** Robert Horton, Ex-Officio

**Visitors:**

Isabel Sumaya for Renewal of Protocols 03-02, 04-01, 04-02, 07-05

Carol Raupp for Renewal of Protocol 05-01

Matt Leon for Renewal of Protocols 07-04 & 08-02

Meeting was called to order by Chair Steve Suter at 1:03 PM.

**I. ANNOUNCEMENTS: None**

**II. PREVIOUS MINUTES:**

Germano moved and Kroeger seconded, a motion to approve the minutes for the IACUC meeting of 24 April 2009. The motion was approved 9-0.

**III. OLD BUSINESS: None**

**IV. NEW BUSINESS:**

**A. Renewal of Authorized Protocols**

[Q = question A = answer C = comment]

**1. Protocol 03-02** (Isabel Sumaya, Psychology) "Biological Psychology Laboratory (303L)"

Sumaya noted that she continues to re-cycle rats into this protocol from Protocol 07-05.

**Q:** The rats can't see in the red light, but the humans can? **A:** Yes.

**2. Protocol 04-01** (Isabel Sumaya, Psychology) "Circadian Effects of Melatonin on Extrapyramidal Side Effects in Rats Treated with Typical and Atypical Antipsychotics"

Sumaya noted that this one keeps getting postponed because of other research priorities, but this year she was able to collect some data on dosage effects to help get ready for the full study.

**Q:** Are there any human studies on this? **A:** There was one in the early 1990s that obtained results consistent with her animal results.

3. **Protocol 04-02** (Isabel Sumaya, Psychology) "The Effects of Caloric Restriction in an Animal Model of Depression in Rats"

This has been modified previously from effects of caloric restriction to effects of a high fat diet. She would like the title of the study to be changed accordingly. Also, she proposes adding 8-arm maze performance as a dependent variable. Here all arms are baited and repeat entry into an arm from which the food has been eaten is considered an error, reflecting forgetting. A second new dependent variable, the elevated maze, would be added as a measure of anxiety, indexed by avoidance of the exposed arms in favor of the enclosed arms.

4. **Protocol 07-05** (Isabel Sumaya, Psychology) "The Effects of Cage Size and Environmental Enrichment on Rats"

They obtained an inverse correlation between cage size and litter size. The reproduction part of the study is over and now survival rates are being compared as a function of enrichment, not cage size. Sumaya would like to add the 8-arm maze test and see if performance is affected by enrichment. She noted that if the enrichment effects are robust she would consider changing all of the housing to enriched environments in the Animal Facility.

**Q:** How many offspring resulted from the reproductive phase of the study? **A:** There were 56; 70% of these remain. The rats formerly occupying one cage were euthanized within the past two weeks to make room for additional rats.

When there were no further questions from the IACUC on Dr. Sumaya's protocols, questions and comments were solicited from the visitor, Dr. Raupp. After the PI had been excused, Raupp asked the following questions, which were then posed by the IACUC Chair to the PI when she had been called back to the meeting.

**Q:** At what point would a study become so modified that it should be submitted as a new study? **C:** There was a consensus among IACUC members that this was really a question for the IACUC and that none of Sumaya's protocols were sufficiently modified to require a new submission.

**Q:** There is a lot of current research on enrichment. What is unique about the present enrichment study? **A:** Very little of the existing research has been done in the context of a general laboratory housing environment, such as our Animal Facility.

The PI and Raupp were asked to leave the the IACUC debated in executive session.

There was a motion to **renew Protocol 03-02** [Filkins moved, McBride seconded, 9-0]

There was a motion to **renew Protocol 04-01** [Germano moved, Beadle seconded, 9-0]

There was a motion to **renew Protocol 04-02 with the following modifications** [Couture moved, Germano seconded, 9-0]

- a. Drop Dee Bailey as Co-Investigator.
- b. Change Protocol 04-02 title to "The Effects of a High Fat Diet In an Animal Model of Depression in Rats".
- c. Add the 8-arm maze as a testing procedure.
- d. Add the elevated maze as a testing procedure.

There was a motion to **renew Protocol 07-05 with the following modifications** [Couture moved, Germano seconded, 9-0]

- a. Drop MandyLi May as Co-Investigator
- b. Add the 8-arm maze as a testing procedure.

5. **Protocol 05-01** (Carol Raupp, Psychology) "Longitudinal Naturalistic Observation of a Trap-Neuter-Release (TNR) Feral Cat Colony"

These activities continue as before with no proposed modifications. The PI is aware of nothing recently published that would undermine the rationale of the project. Cats, kit foxes, and skunks continue to be observed with little or no interaction between species.

**Q:** Do you anticipate publishing or presenting results of these observations? **A:** Academic publication is her goal, but she also would anticipate sharing results with people intrinsically interested in the welfare of feral cats.

**Q:** Trap and neutering is still going on? **A:** Yes and that is entirely separate from this protocol.

**Q:** Do you do FIV testing when cats are trapped? **A:** Yes, for most of them when trapped on campus, but not for the off-campus cats.

**Q:** Has the population of feral cats changed over time as you've been doing this? **A:** Yes. There are about 15 - 20 feral cats on campus right now and at least 8 have been here the whole time. However, the feral population was 50 - 75 to begin with.

**C:** Trapping and neutering is working and is welcomed compared to the alternative of trapping and killing.

When there were no further questions, the PI was asked to leave and the IACUC debated in executive session.

There was a motion to **renew Protocol 05-01** [Germano moved, Filkins seconded, 9-0]

6. **Protocol 98-07** (Todd McBride, Biology) "The Role of Stretch Activated Ion Channels in the Long Term Adaptation of Striated Muscle to Active Muscle Lengthening"

McBride reported he continues to collaborate with the same laboratory in Maryland, where he ships tissue for analysis. The research involves neurochemical mediation of mechanical transduction in skeletal muscle. There was a paper presentation within the project period, but no publications. Serving as department chair does not enhance research productivity. He is awaiting word on a grant proposal to NSW.

7. **Protocol 01-01** (Todd McBride, Biology) "Use of Bullfrogs for Nerve Recordings in Lab Courses"

The relevant course was not offered in AY 2008-2009. It could be offered in W-10, but is at risk because of the budget. There would be n = 12 frogs used if the course were taught.

8. **Protocol 01-04** (Todd McBride, Biology) "Measurement of Rat Metabolism"

Advanced technology has replaced the original rat in the can methodology. The parameters for a thesis project are being worked out under this protocol. When the methodology is in place, a new protocol will be submitted for the actual thesis.

There were no questions on McBride's protocols. The PI was asked to leave and the IACUC debated in executive session.

Motion to **renew Protocol 98-07** [Filkins moved, Troup seconded, 9-0]

Motion to **renew Protocol 01-01** [Germano moved, Filkins seconded, 9-0]

Motion to **renew Protocol 01-04** [Kroeger moved, Gamboa seconded, 9-0]

**9. Protocol 07-04** (Matt Leon, Psychology) "Psychology Course 301L: Principles Of Learning Laboratory"

Leon outlined anticipated changes that would lead to a new protocol for this laboratory course, but these are not proposed here. The Protocol 07-04 renewal is requested in case the revised protocol is not submitted for the October 2009 IACUC meeting.

There were no questions. The PI was asked to leave and the IACUC debated in executive session.

There was a motion to **renew Protocol 07-04** [Couture moved, McBride seconded, 9-0]

**10. Protocol 08-02** (Matt Leon, Psychology) "The Neural and Pharmacological Basis of Matching Behavior in Self-Stimulating Rats"

He is looking at how scopolamine might modulate the reward magnitude effects he obtains in the dynamic choice situation using rewarding brain stimulation. Reward magnitude is operationalized as the number of pulses in a 500-ms burst.

**Q:** You've reported two adverse events. Could you describe those? **A:** One rat died when the electrode cap came off. We have had 20 implants and this rate is OK. Occasional adverse events are normal.

**C:** There were concurring comments from the IACUC members.

When there were no further questions, the PI was asked to leave and the IACUC debated in executive session.

There was a motion to **renew Protocol 08-02** [Couture moved, McBride seconded, 9-0]

**B. Review of New Protocols: none**

**V. AREAS OF CONCERN:**

**A.** Discussion of the Application for IACUC Protocol Renewal form and instructions was muted, given that the completed forms were not included in the meeting packet.

**VI. NEXT MEETING:**

Friday, 02 October 2009 – probably in DDH A-108 again.

**VII. ADJOURNMENT:**

There being no further business, the meeting was adjourned at 2:38 PM. [McBride moved, Gemano seconded, 9-0]

**VIII. ANIMAL FACILITY INSPECTION**

There are about 200 rats housed in the facility at present. One cage of rats was recently euthanized to make room for rats on another protocol. Many rats are still being recycled among protocols. Most rats are being housed in the enrichment conditions. The Facilities Director, Dr. Sumaya, is considering making the large enrichment cages, the default living condition in the facility, unless a protocol requires special housing. The Safety and Risk Manager's cell phone number was added to the emergency call-out list. Protocols, authorization letters, and the procedures for reporting concerns were posted. The call-out list was up to date. The logs were current and properly filled out.

Respectfully Submitted, **Steve Suter, Professor of Psychology, Secretary for the IACUC**