

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 06 June 2008*

*Stockdale Room*

**Members Present:**

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

**Non-Scientific Concerns:** Andrew Troup, Liora Gubkin

**Safety and Risk Management:** David Beadle

**Veterinarian:** Mylon Filkins

**Members Absent:**

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

**Scientific Concerns:** David Germano

**Ex-Officio:** Robert Horton

**Visitors:**

Carol Raupp, for Protocol 05-01

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

Matt Leon for Protocol 07-04

Meeting was called to order by Chair Steve Suter at 1:02 PM.

**I. ANNOUNCEMENTS:**

**A.** Protocol 05-01 renewal [Raupp, feral cats] has been added to the agenda.

**II. PREVIOUS MINUTES:**

McBride moved and Filkins seconded, a motion to approve the minutes for the IACUC meeting of 18 April 2008 with clerical corrections and addition of the Animal Facility inspection notes. The motion was approved 6-0.

**III. OLD BUSINESS: [none]**

**IV. NEW BUSINESS:**

**A. Review of Proposed Modifications of Active Protocols [none]**

**B. Review of New Protocols [none]**

**C. Renewal of Protocols**

- a. 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"

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

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

The investigator summarized. Protocol 98-07 used only 6 rats, fewer than anticipated. If requested NSF funding is granted, then 24 animals would be used this coming year. Protocol 01-01 was used and had 12 frogs last year, but probably will not be used next year because the PI will not be teaching this course. It's being kept open just in case. Protocol 01-04 was not used, but is being kept active in case there are student projects that would require this protocol. Questions followed:

[Q = question A = answer C = comment]

**Q:** Please provide any updates on the potential benefits of Protocol 98-07. **A:** New technology is now being used. The science remains the same in terms of the questions being studied, which deal with protein conversions on the role of stretch-muscle-initiated movement.

**Q:** The research proposed in the NSF grant falls within the procedures authorized under Protocol 98-07? **A:** Yes.

**Q:** Are there any limits on renewals of a protocol that it not being used? **A:** The Chair responded that there is no IACUC policy limiting such renewals.

**Q:** If there were student projects related to Protocols 01-01 or 01-04, would they require a new protocol? **A:** Not if they conformed to the activities authorized by this protocol.

When there were no further questions from the IACUC on the McBride protocols, the investigator was excused and questions and comments were solicited from the visitor, Dr. Raupp. She had the following questions for the investigator, which were posed by the IACUC Chair to the investigator when he had been called back to the meeting and Dr. Raupp had been excused.

**Q:** Can the PI provide evidence that his protocols are still conforming to our guidelines, such as minimizing animals used and recycling into other protocols?

**A:** The rats in Protocol 98-07 were euthanized, stored, and then thawed for use in comparative anatomy courses. His research is sufficiently invasive to be appropriate for non-human animals, not humans. The PI has examined computer-based simulations of frog dissections and does not find them acceptable. Frogs are euthanized, frozen, and then recycled for use in the comparative anatomy courses.

When there were no more questions, the PI was excused and the IACUC deliberated in executive session. There was a motion to approve the renewal of Protocols 98-07, 01-01, and 01-04. Filkins moved/Beadle seconded. Approved 5-0 with McBride recused.

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

The investigator summarized. This protocol has no modifications and is being run as always. He finds that rats sometimes don't learn and are recycled for use in the lab course the next quarter. He is complying with the conditions of the protocol specifying that only enough rats be ordered. In fact new rats were ordered last year only in Fall 2007; animals for the following quarters were recycled from other protocols.

**Q:** How many rats are used? **A:** One rat per student.

When there were no further questions from the IACUC on Protocol 07-04, the investigator was excused and questions and comments were solicited from the visitor, Dr. Raupp. She had the following questions for the investigator, which were posed by the IACUC Chair to the investigator when he had been called back to the meeting and Dr. Raupp had been excused.

**Q:** Are there any changes in the food deprivation procedures from the authorized protocol? **A:** No.

**Q:** Were there any injuries to rats or students or deaths of rats? **A:** No injuries and only one death of old age, but that was after a rat had graduated from the protocol.

When there were no more questions, the PI was excused and the IACUC deliberated in executive session. There was a motion to approve the renewal of Protocol 07-04. McBride moved, Filkins seconded. Approved 5-0 with one abstention.

**e. Protocol 05-01 (Carol Raupp, Psychology) "Longitudinal Naturalistic Observation of a Trap-Neuter-Release (TNR) feral cat colony."**

The investigator summarized. Had been keeping observations for years, but since 2005 authorization of this protocol, may use them for research purposes. Data are collecting during feeding, between 11 PM and 5 AM. These observations are passive and have no effects on the animals.

**Q:** What is your impression of the size of the feral cat population at CSUB over time? **A:** It was about 15 in 2005 and with the recent addition of several litters of kittens, it is a little large, but less than 20 at present.

**Q:** Do you do FIV testing in connection with the TNR activities? **A:** Yes. If they are positive, they are euthanized.

**Q:** What kind of time frame do you have in mind, given this is described as "longitudinal"? **A:** About 5 years, after which I would seek publication of the data. By the way, the feedings have been more toward the 5 AM time and there are fewer wild species roaming around at that time.

When there were no more questions, the PI was excused and the IACUC deliberated in executive session. There was a motion to approve the renewal of Protocol 05-01 with the inclusion of the usual “disclaimer” language indicating that the IACUC was not sanctioning the TNR activities, only her observations. McBride moved/Troup seconded. Approved 6-0.

- f. **Protocol 03-02** (Isabel Sumaya, Psychology) “Biological Psychology Laboratory (303L)”
- g. **Protocol 04-01** (Isabel Sumaya, Psychology) "Circadian Effects of Melatonin on Extrapyramidal Side Effects in Rats Treated with Typical and Atypical Antipsychotics"
- h. **Protocol 04-02** (Isabel Sumaya, Psychology) "The Effects of Caloric Restriction in an Animal Model of Depression in Rats"
- i. **Protocol 07-05** (Isabel Sumaya, Psychology) “The Effects of Cage Size and Environmental Enrichment on Rats”

The investigator summarized. Protocol 03-02 is open field activity for a Psyc 303 lab assignment looking at light/dark phase differences. Same number of animals are expected, which will be re-cycled from Protocol 06-01. Protocol 04-02 will continue to look at caloric restriction effects, but this time involving some of the older animals from Protocol 06-01. The enriched environment study, Protocol 07-05, now has  $n = 61$ , with addition of several very recent litters. Next generation will also be re-cycled. Because of this protocol, not many animals were purchased last year. Sumaya is taking over responsibility for this protocol from the previous student PI, who will be in a graduate program elsewhere, but still wishes to be involved with this protocol. Questions followed:

**Q:** How does this work, with her not being a student. **A:** She will be handled as a research associate, a formal position at CSUB for such situations.

**C:** McBride indicated he would welcome being able to use some of the female rats for his protocol.

**Q:** How are you handling the issue of deciding when to terminate the protocol?

**A:** As you know the original design would have yielded too many rats and gone beyond the capacity of the Animal Facility. Now, each wave of the protocol only goes forth if there is capacity and anticipated planned use.

**Q:** Only some of the rats get to be breeders for the next wave. How are they chosen? **A:** Randomly.

**Q:** What is IACUC policy on “holding over” animals -- would they still be in a protocol. **A:** Yes. They would still be in their most recent protocol. No new protocol is needed.

When there were no further questions from the IACUC on Sumaya’s protocols, the investigator was excused and questions and comments were solicited from

the visitor, Dr. Raupp. She had the following questions for the investigator, which were posed by the IACUC Chair to the investigator when he had been called back to the meeting and Dr. Raupp had been excused.

**Q:** Hard to keep track of the numbers of rats involved here relative to capacity of the Animal Facility. What is capacity and how do we make sure there is no overflow that would yield rats that are needlessly euthanized? Is there any concealed pressure to euthanize older rats earlier due to increasing numbers of young rats from this protocol? **A:** Capacity depends upon the housing conditions, but 120 animals is a reasonable limit. Older animals are of particular interest, so they are retained until they reach the limit of having served in about three protocols, then they are euthanized.

When there were no more questions, the PI was excused and the IACUC deliberated in executive session. There was a motion to approve the renewal of Protocols 03-02, 04-01, 04-02, and 07-05. McBride moved/Troup seconded. Approved 6-0.

## **V. AREAS OF CONCERN:**

During consideration of the protocol renewals, discussion emerged about the value of having a more formal mechanism to elicit useful information about the potential benefits of a protocol that could invite information about updates, changes, and new scientific evidence, beyond the present summaries of activities carried out under each protocol. There was a motion for the IACUC Chair to develop a draft renewal short-form that would facilitate proper assessment of renewals with respect to the principles that the IACUC is supposed to operate under. Gubkin moved/Troup seconded. Approved 6-0.

Dr. Raupp's concern about possible trapping of feral cats in the FACT area [see minutes of April 2008 IACUC meeting] was brought up again. This situation is not within the purview of the IACUC, but is within the purview of the CSUB Safety and Risk Management Officer, David Beadle, who is a member of the IACUC and had sought additional information. There was discussion. Beadle looked at other CSU campuses and found situations ranging from no formal feral cat activities to very active, well-organized programs. He has seen a CSUB document that mentions involving Raupp or her cat colleagues if feral cats are to be removed from buildings. Mike Neal, the Vice-President for Business and Administrative Services, was not aware of having anything on file to that effect. From a risk standpoint, having feral cats causing damage and possibly killing birds being cared for at FACT, is a problem and they should be removed. He was told that feral cats were trapped there and turned over to animal control. There was discussion about the necessity for euthanization of feral cats who prey on birds, which ranged from strong support for that policy to concern about sentencing a cat to death for trying to catch a bird. It was noted that feral cats at FACT should probably be trapped and removed before they cause a problem -- not doing that could draw reasonable criticism. McBride objected to the words in Raupp's protocol renewal document, referring to cats being ". . . killed by FACT personnel" when, according to evidence, FACT personnel only trapped the animals and turned them over to animal control, where, Raupp pointed out, every feral cat is euthanized. Raupp noted that she takes feral cats removed from CSUB to her spacious indoor/outdoor "sanctuary"; she does not release them. Raupp was also not convinced that there actually was evidence that it was feral cats, rather than the foxes and coyotes on campus, that were causing

problems at FACT. Raupp noted that feral cat trapping is not uncommon, in fact SPCA does it and uses the office of Filkins, the IACUC consulting veterinarian, to treat some of them. There appeared to be a consensus that CSUB develop a policy that will protect FACT activities without resulting in deaths of cats that could be avoided. Raupp and Beadle were going to pursue this.

**VI. NEXT MEETING:**

Friday, 10 October 2008 – meeting room to be announced.

**VII. ADJOURNMENT:**

There being no further business, the meeting was adjourned at 2:44 PM. McBride moved/Gubkin seconded. 6-0.

Respectfully Submitted,

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