

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

MINUTES OF MEETING
Friday, 10 June 2005
Cafeteria Conference Room 101

Members Present:

Scientific Concerns: David Germano, Todd McBride, Steve Suter

Non-Scientific Concerns: Andrew Troup, Jane Granskog

Community Issues: Debbie Kroeger

Veterinarian: Mylon Filkins

Members Absent:

Kellie Garcia, Chuck Simonson, Edwin Sasaki [ex-officio]

Visitors:

Carol Raupp, Psychology, for renewal of Protocol 05-01

Isabel Sumaya, Psychology, for renewal of Protocols 02-02, 03-02, 04-01, 04-02

Meeting was called to order by Chair Steve Suter at 1:00 PM.

ANNOUNCEMENTS:

The Chair announced that Jane Granskog was attending her final meeting and thanked her for her service to the IACUC.

PREVIOUS MINUTES:

Granskog moved and Germano seconded, a motion to approve the minutes for the IACUC meeting of 22 April 2005. The motion was approved 7-0.

OLD BUSINESS: [none]

NEW BUSINESS: [Protocol Renewals]

- 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"

The investigator summarized. This is his research protocol and is being used for pilot data in support of an NIH grant, which was re-submitted in September 2004, but rejected. Two manuscripts reporting data collected under this protocol were submitted this year. About 24-32 rats will be involved next year.

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

The investigator summarized. This is to support lab assignments and was not used during the authorization period. It will be used next year. There will be about 12 to 24 frogs, at one frog per two students.

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

The investigator summarized. This is to support lab assignments and was not used during the authorization period. It is not clear whether this protocol will be used during AY 05/06, but the investigator would like to keep it active for possible demonstrations and student research projects in Biol 455 during Fall 2005. This would involve about 6 rats, that could be transferred to Protocol 98-07 afterward.

When there were no further questions from the IACUC, the investigator excused and questions and comments were solicited from the visitor, Dr. Raupp. She had the following questions for the investigator, which were posed to the investigator by the Chair upon his return.

Q: With respect to Protocol 98-07, will these be new rats? A: Yes.

Q: Have there been any injuries or accidents involving the rats in Protocol 98-07? A: No.

Q: Any illness or unexplained mortality with the rats in Protocol 98-07? A: No.

McBride and Raupp were excused and the IACUC deliberated in executive session. There was a motion to renew Protocols 98-07, 01-01, and 01-04. Granskog moved, Troup seconded. Approved 6-0, with McBride abstaining.

d. Protocol 03-02 (Isabel Sumaya, Psychology) "Open Field Paradigm in the Light and Dark"

The investigator summarized. This involved rats [$n = 22$] transferred from Protocol 02-02, used for an open field activity exercise in Psyc 303 [Biological Psychology]. They are living out their natural lives in the colony under the Protocol 02-02 feeding regimen and being monitored for longevity.

e. Protocol 02-02 (Isabel Sumaya, Psychology) "Psychology Course 301L: Principles Of Learning Laboratory"

The investigator summarized. These were new rats [$n = 24$] arriving December 2004. Students enrolled in Psyc301L spent a lot of time with them carrying out a series of learning assignments. The rats were maintained at 85% of their free-feeding weight. They were euthanized when the course was over to make room for the rats needed for Protocol 04-02 and taken to FACT for further use.

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

The investigator summarized. This has not been used yet and will begin in Summer 2005. New rats will be used to ensure that there are no confounding effects with the brain chemistry.

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

The investigator summarized. This is to support lab assignments and was not used during the authorization period. It is not clear whether this protocol will be used during AY 05/06, but the investigator would like to keep it active for possible demonstrations and student research projects in Biol 455 during Fall 2005. This would involve about 6 rats, that could be transferred to Protocol 98-07 afterward.

Q: When you mention euthanizing rats because of lack of space, what is the “space” restriction? A: The limit is the rack and cage space available in the Animal Facility.

Q: What is the capacity of the colony? A: There is no set limit specified in the *Guide for the Care and use of Laboratory Animals*, which we use in managing the Animal Facility. We believe that it can hold about 100 animals OK.

Q: The air stays fresh? A: Yes. When the air conditioning system shuts down, one is able to appreciate the good job that it ordinarily provides.

Q: Do you think that caloric restriction may have permanent effects on brain chemistry? A: Probably not, but we do expect changes in the serotonin system, and if they were to carry over that could be a possible problem in Protocol 04-01.

Q: So, there are limits on re-cycling between protocols? A: Yes. Re-cycling works between the Psyc 301 and Psyc 303 lab assignments and from the brain chemistry protocols into those protocols, but not between brain chemistry oriented protocols.

Q: Could you describe what the natural deaths of your rats are like? A: It’s usually fairly sudden. A rat will be lethargic one day and dead the next.

Q: Are the caretakers trained to recognize onset of death? A: Yes, and it is sudden as mentioned before.

Q: After euthanization, the bodies of the rats are taken to FACT? A: Yes.

When there were no further questions from the IACUC, the investigator excused and questions and comments were solicited from the visitor, Dr. Raupp. She had the following questions for the investigator, which were posed to the investigator by the Chair upon the investigator’s return.

Q: With respect to Protocol 03-02, what feeding regimen will they be on? A: It’s enough food to maintain them at 85% of their free-feeding weight.

Q: On Protocol 02-02, when they are food deprived to bring them down to 85%, how long do they go without food? A: They always get at least 10 grams of food every 24 hours.

Q: Any illness or unexplained mortality with the rats in Protocol 98-07? A: No.

Q: Are the caretakers OK in recognizing approach of death? A: Yes, they are diligent and, again, the rats decline rapidly once it starts.

Sumaya and Raupp were excused and the IACUC deliberated in executive session. There was a motion to renew Protocols 03-02, 02-02, 04-02, and 04-01. Germano moved, McBride seconded. Approved 7-0.

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

The investigator summarized. She has been observing every night since the protocol was approved in April 2005. She is interested in getting some kind of unobtrusive camera with night vision because it is very difficult to look and write. She is also interested in getting training to better observe the kit foxes that visit the feeding stations.

Q: When you talk about kit foxes, this seems to go beyond studying co-existence of species.
A: She is studying co-existence. The kit foxes happen to be among the species interacting with the cats.

Q: If this is seen as a study of kit foxes then you could be accused of harassing kit foxes and modifying their behavior.
A: The focus is on the cats, but the statement about seeking to improve the quality of my kit fox observations could be deleted from the description of the coming year.

Q: How much food is provided each evening?
A: It's what would be enough for all of the cats, but there is no telling if all of the cats will show up.

Q: How many feeding stations are there?
A: There are 7.

Q: How long are you at a station?
A: It could be up to several hours. Overall it takes me from 1 to 3 hours every night.

Q: What time of night do you visit the feeding stations?
A: She never starts earlier than 10 p.m. when the people have cleared out and is sometimes there as late as 5 a.m.

The investigator was excused and the IACUC deliberated in executive session. There was a motion to renew the protocol, with two stipulations added. Granskog moved, Troup seconded, approved 7-0. The stipulations were that:

1. Words be added to the renewal letter stating that, "The IACUC does not have jurisdiction or authority over, nor does it sanction in any way, the care, management, or existence of the feral cat colony on campus."
2. The approval of the written renewal request excludes the following words, "Over the summer I would like to track down any existing behavioral classification scheme for kit fox behavior and/or work with the people conducting the kit fox observations on campus to improve my 'eye' for kit fox behaviors."

The action was explained to the investigator upon her return.

AREAS OF CONCERN: [none]

NEXT MEETING:

Friday, 30 September, 2005 – meeting room to be announced.

ADJOURNMENT:

There being no further business, the meeting was adjourned at 2:30 PM. (McBride moved, Granskog seconded, approved 7-0).

Respectfully Submitted,

Steve Suter, Professor of Psychology, Secretary for the IACUC