



**School of Veterinary Medicine Animal Care and Use Committee
Open Session – January 14, 2020**

Present (voting): [REDACTED] (for [REDACTED]), [REDACTED]

Present (nonvoting): [REDACTED]

Guests:

Absent: [REDACTED]

Dr. [REDACTED] called the meeting to order at 10:00 a.m.

Approval of Open Session Minutes December 10, 2019

[REDACTED] / [REDACTED] moved to approve the minutes with minor editorial modifications. The vote was unanimous.

Annual Reapprovals

[REDACTED] / [REDACTED] moved to approve the annual updates. The vote was unanimous with [REDACTED] abstaining.

Protocol Review

[REDACTED] joined the meeting. [REDACTED] assumed non-voting status.]

Ms. [REDACTED] provided a brief explanation of a change in the protocol form that requires individuals who request to transport research animals in privately-owned vehicles, or non-designated departmental or fleet vehicles, to attach a completed permission form to the protocol. She reminded committee members to verify the forms are attached when reviewing protocols.

V005375-R01-A02: Mechanotransduction and the Regulation of Skeletal Muscle Mass – Dr.

reminded the ACUC that an amendment of this protocol was reviewed at last month's meeting and subsequently approved with modifications. The active protocol was called for re-review at today's meeting. Discussion of the protocol ensued. The PI will be asked to provide a clearer description of the short and long-term research goals, explain how the proposed experiments will be used to accomplish these research goals, and make other changes. The PI will also be asked to consider breaking this protocol into multiple protocols when the renewal is submitted in 2021. moved to request an amendment. The vote was unanimous.

[REDACTED] joined the meeting]

The ACUC briefly discussed how animal numbers are tracked by PIs for rodent breeding colonies. Dr. [REDACTED] offered to follow-up with SVM PIs who have breeding colonies to collect details on tracking animal numbers and report back to the ACUC.

V006274: Snake Analgesia - Discussion of the protocol ensued. The PI will be asked not to include the [REDACTED] on the locations page, but to indicate in the experimental narrative that there is a memorandum of understanding in place. [REDACTED] / [REDACTED] moved to require modifications to secure approval. The vote was unanimous.

Logs: Designated Review/other

The committee reviewed and briefly discussed the designated review and VVC logs.

Senior Program Veterinarians Reports

Dr. [REDACTED] provided an update on the usage of horses in the teaching herd over the last year. She explained that the procedures performed on each animal are carefully tracked to avoid over-usage. She said that the number of specific procedures performed per animal was much lower than the number approved in the protocol. Animals were also used for two non-invasive research projects. She said that she will continue to work with instructors and researchers about their planned use of the teaching herd animals and will keep the ACUC informed.

Report from ARC

Mr. [REDACTED] provided an update on a recent inspection by the USDA Veterinary Medical Officers (VMOs). No non-compliant items were identified, and in the exit briefing the VMOs complimented the UW animal program for sustained improvement in the management of expired items. The VMOs also complimented enrichment practices and the proactive measures facility managers are taking to prevent animal injuries.

Report from the Animal Program Assessment Specialists (APAS)

Mr. [REDACTED] reported that one focus of the recent USDA inspection was on USDA pain categorization on the protocols. He reminded the ACUC that if analgesics, anesthetics, or tranquilizers are listed on a protocol to potentially relieve pain or distress, then the protocol should be considered to be USDA Category D, and literature search for alternatives performed.

Committee Training

Ms. [REDACTED] presented information about scientific merit review, the IACUC's role in conducting scientific merit review in the context of reviewing protocols, and provided examples of how some common protocol review questions in fact are questions about scientific merit (see attached). She highlighted the positions of NIH Office of Laboratory Animal Welfare (OLAW) and the *Guide* regarding scientific merit review by IACUCs, which state that IACUCs may ask questions about scientific merit review as part of considering if the proposed work with animals is ethical. Members thanked Ms. [REDACTED] for presenting this topic.

Other Business

Dr. [REDACTED] reminded the committee that a draft of the semiannual program review letter to the Institutional Official was previously circulated to members. She said she received a few minor edits, and those changes have been incorporated. After brief discussion members' signatures were collected. Dr. [REDACTED] announced that a 25% veterinary anesthesiologist position has been created at RARC to support the animal research program, noting this was specifically discussed during the program review.

Dr. [REDACTED] called for other business. Hearing none, [REDACTED] / [REDACTED] moved to adjourn into Closed Session for discussion of research protocols or other documents containing confidential proprietary information and personnel matters relating to such research protocols, pursuant to Wisconsin Statutes Section 19.85(1)(c), (d), (e), (f), and (g). The vote was unanimous by roll call.

[REDACTED]



**School of Veterinary Medicine Animal Care and Use Committee
Closed Session – January 14, 2020**

Present (voting): [REDACTED] (for [REDACTED]), [REDACTED],

Present (nonvoting): [REDACTED]

Guests:

Absent: [REDACTED]

Approval of Closed Session Minutes December 10, 2019

[REDACTED] / [REDACTED] moved to approve the minutes as submitted. The vote was unanimous.

Inspection Reports

Ms. [REDACTED] circulated the inspection signup sheet.

Senior Program Veterinarians Reports

Neither Drs. [REDACTED] nor [REDACTED] reports for Closed Session.

Report from ARC

Mr. [REDACTED] had no report for Closed Session.

Report from the Animal Program Assessment Specialists (APAS)

Mr. [REDACTED] had no report for Closed Session.

Other Business

Dr. [REDACTED] reported that a company is filming a commercial at the [REDACTED]. For security purposes the appropriate individuals in the Dean's office and UW Communications are involved and aware of the activity.

Ms. [REDACTED] reported that waivers were granted for species-specific training with dogs for [REDACTED], and for Lab Animal Surgery training for [REDACTED].

Dr. [REDACTED] n called for other business for closed session. Hearing none, Dr. [REDACTED] adjourned the meeting directly from Closed Session at 11:40 a.m.

[REDACTED]

LOGS for SVM ACUC – January 2020

Designated Review New/Renewal

PI	Prot #	Date Rec'd	Title	Species	N/R
██████	V5703-R01	12/9	Periosteal transection to accelerate bone growth by ...focused ultrasound	Rabbit, sheep	Renew
██████	V5794-R01	12/11	Mouse model for respiratory tuberculosis	Mouse	Renew
██████	V6274	12/19	Snake Analgesia	Snakes	New
██████	V6278	12/19	Evaluation of the rate of bone healing using a novel mineral-organic adhesive in tooth extraction sites in dogs	Dog	New
██████	V5720-R01	12/30	Endogenous Cannabinoids and NGF...of lower urinary tract dysfunction	Mouse, rat	Renew
██████	V6279	1/2	Safety and efficacy of retrobulbar regional anesthesia in the eyes of adult horses	Horse	New
██████████	V5833-R01	1/2	Bovine Surgery Elective for 3 rd year Veterinary Students	Cow	Renew
██████	V5734-R01	1/3	Ecology and infection in African bats	Wildlife	Renew

Designated Review Amendment

PI	Prot #	Date Rec'd	Title	Species	Sum of change
██████████	V5433-R01-A01	12/5	Pre-clinical development and pharmacokinetics of liposomal extended release doxycycline and chloroquine	Rat, mouse	(V/C) -location
██████	V5582-R01-A02	12/13	UW School of Veterinary Medicine Residential equine teaching herd	Horse	+farrier work
██████	V5308-R01-A03	1/2	Regulation of T Cell Immunity to Intracellular Pathogens	Mouse	+ assess efficacy of new adjuvants

Veterinary Verification and Consultation (VVC) Remember to notify safety

PI	Prot #	Date Rec'd	Title	Species	Sum of change
██████	V5096-R01-V02	12/5	Mechanisms of prostate development, urinary function and dysfunction	Mouse	+surgical glue, placement of jugular catheter
██████	V5140-R01-A04	12/5	Mechanisms of respiratory plasticity	Mouse, rat	Clarification to wheel access

Dual School Review

PI	Prot #	Date Rec'd	Title	Species	Addl ACUC
██████	A005688-R01	1/29/19	Vaccine development for mycobacterial infection in goats or sheep	Goat, sheep	
██████	M5572-R01-A03	12/19	Fabrication and Assessment of Novel neural Interfaces	Rat, mouse	CALS

date	start	end	title	notes	travel (Min)	vm_ needed	attending
Thursday, January 9, 2020	1:00 PM	3:00 PM	SVM-[REDACTED]- Facility&Labs 2020A		0	0	B: [REDACTED] R: [REDACTED] V: [REDACTED] V: [REDACTED]
Thursday, January 23, 2020	8:00 AM	11:00 AM	SVM-[REDACTED]-All 2020A		15	0	B: [REDACTED] R: [REDACTED] V: [REDACTED] V: [REDACTED]
Wednesday, February 12, 2020	9:00 AM	11:00 AM	SVM-[REDACTED] 2020A	Flu shot required. [REDACTED]	15	0	B: [REDACTED] R: [REDACTED] V: [REDACTED] V: [REDACTED]
Tuesday, February 25, 2020	8:30 AM	10:00 AM	SVM-[REDACTED]- Facility 2020A		0	0	B: [REDACTED] R: [REDACTED] V: [REDACTED] V: [REDACTED]
Wednesday, March 11, 2020	8:30 AM	10:30 AM	SVM-[REDACTED] Facility 2020A	Shower in/out. One member should be N95 fit-tested.	0	1	B: [REDACTED] R: [REDACTED] V: [REDACTED] V: [REDACTED]
Friday, March 27, 2020	3:00 PM	4:00 PM	SVM-[REDACTED] 2020A		0	0	B: [REDACTED] R: [REDACTED] V: [REDACTED] V: [REDACTED]
Tuesday, April 14, 2020	9:00 AM	9:45 AM	SVM-[REDACTED]- Surgery 2020A		0	0	B: [REDACTED] R: [REDACTED] V: [REDACTED] V: [REDACTED]

date	start	end	title	notes	travel (Min)	vm_ needed	attending
Thursday, April 16, 2020	10:00 AM	12:30 PM	SVM-Labs-GroupA 2020A	labs EXCEPT Surgery suite & Core	0	0	B: R: V: V:
Thursday, April 23, 2020	10:00 AM	12:30 PM	SVM-Labs-GroupB 2020A		0	0	B: R: V: V:

CAN THE IACUC ASK QUESTIONS ABOUT SCIENTIFIC MERIT OR EXPERIMENTAL DESIGN DURING THE REVIEW OF A PROTOCOL?

Yes. Each IACUC member brings a unique perspective to the protocol review process – their own research experience, their educational background and training, their experience with specific species, and their personal beliefs. These inform a reviewer who is evaluating an animal care and use protocol to ensure the use of the animal model is scientifically and ethically justified.

Scientific merit defined: Webster defines merit as the “state of having worth, value or excellence.” When the noun “merit” is combined with the adjective “scientific” it means of “scientific worth, value or scientific excellence.” (Prentice, E.D., Crouse, D.A., Mann, M.D.; ILAR News 34(1-2): 15-16, 1992)

Scientific merit defined: In order for research to have scientific merit, “the research should be based on a significant hypothesis and, if possible, oriented towards uncovering an important biological mechanism. The hypothesis should be testable...by the proposed experiment.” (Gordon, S.J.; Ortho. Res. 7:138-141, 1989)

Criteria for scientific merit:

- The hypothesis is testable (i.e. can be proved or disproved) by the experiment.
- The experimental design is appropriate and sound.
- The procedures selected will yield scientifically valid results.
- The results will be of sufficient [potential] value to advancement of science/knowledge.

Some members of the research community believe that IACUC review of proposed research should be limited to issues of animal health and wellbeing and should not extend to a consideration of scientific merit. They believe that because a significant proportion of funding requests undergo peer review by recognized experts charged with making decisions about the proposed science, including scientific merit, an IACUC with less specific expertise should not duplicate peer review efforts.

Definitions:

- Peer review: Choosing the best from a group of proposals all of which have scientific merit.
- IACUC review: Ensuring that the use of animal models is scientifically justified.

In the absence of peer review an institution - through its IACUC - has an obligation to ensure that an equivalent examination of methodology is undertaken. The IACUC, as society's gatekeeper, must determine that the proposed use of animals for scientific research ethical. In order for research to be ethical:

- It must have sufficient potential scientific or societal value which justifies the use of the animals.
- The ethical costs (harms) must be at least balanced by, and preferably outweighed by, the potential benefit(s).

Adapted from PRIM&R web seminar “Ethics, Scientific Merit Review, and Harm/Benefit Analysis in Animal Research”, January 30, 2013

Regulations and Standards on Scientific Merit

- OLAW Public Health Service Policy on Humane Care and Use of Laboratory Animals (PHS Policy), sections IV.C.I a, b, d, f.
- OLAW Frequently Asked Question #6, "Is the IACUC responsible for judging the scientific merit of proposals?" (<http://grants.nih.gov/grants/olaw/faqs.htm#628>):
- USDA Animal Welfare Act and Regulations, 9 CFR 2.31(d)(iii); 2.31(d)(iv)(A); 2.31(d)(x); 2.31(e)(1)(2); 2.31 (e)(4); 2.32(a)
- *The Guide for the Care and Use of Laboratory Animals* (8th ed.), page 26 (The Role of the IACUC and Protocol Review)

Advice on Writing IACUC Protocol Review Questions about Scientific Merit...