NIDA IRP ACUC MINUTES March 26, 2020 1:00 PM

Proof of Quorum:

Present or [Absent]	A. Hoffman Redacted by agreement	K. Stump Redacted by agreement	Redacted by agreement
			*non-voting **Alternate ***Guest

A. Announcements/New Business

- 1. The ACUC approved the minutes from the 27 February 2020 meeting.
- 2. COVID-19 implications/updates:
- a. The semi-annual inspections have been postponed. Our waiver was submitted to OACU and it will be forwarded, reviewed and likely approved by OLAW. The program review will still take place on 4/2 at 3:00 pm, all ACUC members are invited to log in (but not mandated).
- b. Dr. Stump updated the committee on the animal program. Administrative staff are teleworking, caretakers are on-site with shift rotations to avoid contact and Drs. Stump, are alternating days in the office.
- c. There were two PAV visits scheduled that were subsequently cancelled due to our maintenance-only posture.

B.	Review of Initial Submissions, Renewals and Modifications (Significant Changes- Ca	ıtegory
	<u>1):</u>	
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designated member rev	iew process.		
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The ACUC approved the annual reviews.

A. Annual Reviews

(vote to approve all)

Redacted by agreement Transfer protocol for electrophysiological recordings in rodent brain slices (Year 1) j. Effects of ketamine opioid self-administration in rats (Year Characterization of novel transgenic rats and adenoassociated viral (AAV) vectors (Year 2) Redacted by agreement Characterization of novel microglia-specific expression of crerecombinase (Year 1) Monitoring endoplasmic reticulum (ER) calcium homeostasis m. using transgenic mice (Year 2) Redacted by agreement Generation of primary neuronal and glial cultures for evaluating novel viral vectors (Year 1) Redacted by agreement Behavioral Flexibility and Decision Making in Rat Models (Year 2)

p.	The Role of Lateral Hypothalamus and Ventral Tegmental Area in Fear Conditioning (Year 2)
q.	Fast Scan Cyclic Voltammetry Screening of Candidate Drugs for Cocaine Antagonist Activity (Year 2)
r.	Redacted by agreement Role of the Ghrelin System in Substance Abuse Disorders (Year 2)
s.	Developing a mouse oral fentanyl self-administration model for transcranial magnetic stimulation (Year 2)
t.	In vivo imaging of dorsal striatal circuits during the acquisition and consolidation of a motor learning skill (Year 1)
	sport of Significant Changes – Category 2 formation only) 1. Administrative Conditional (Category 2.1) a. None
	2. Administrative Conditional (Category 2.2)
	a. None
Re	eport of Minor Changes (Unconditional Administrative – Category 3):
	formation only)
	1. Redacted by agreement Single unit recording during economic choice for drugs and attentional bias to drug cues Amendment 1 – Addition of personnel Approved 02/19/2020

B.

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D. Report of Designated Member Reviews (follow-up from previous Full Committee Review – Motion 1's)

(Informational only)

1.	Redacted by agreement Neural mechanisms underlying incubation of
	prescription opioid craving and pain sensitivity
	Amendment 8 – Modify lactic acid administration schedule
	Approved 03/04/2020
2.	Redacted by agreement Holding protocol for transgenic mice
	Renewal of Redacted by agreement
	Approved 03/06/2020
3.	Redacted by agreement Neural mechanisms underlying the incubation
٠.	of methamphetamine, cocaine and heroin craving after voluntary
	abstinence
	Amendment 5 – Additional experiments and animals
	Approved 03/09/2020
4.	Redacted by agreement Transcytosis of microparticles in rat brain
	Renewal of Redacted by agreement
	Approved 03/11/2020
5.	Redacted by agreement Role of neurotransmitters in alcohol
٥.	
	dependence
	Amendment 4 – Additional experiments and animals
	Approved 03/12/2020
6.	Redacted by agreement Neural circuits of withdrawal and reinstatement
	induced by opioid use in rodents
	Amendment 1 – Additional animals and experiments
	Approved 03/17/2020
	Approved 03/17/2020
7.	Redacted by agreement Neural circuits regulating sleep-awake states
	in mice
	Initial Submission
	Approved 03/17/2020

Ε.	Report of	<u>Designated Membe</u>	<u>r Reviews (</u>	<u>(outside of Full</u>	Committee	<u>Review)</u>

(Information only)

1. none

NIDA IRP ACUC MINUTES April 23, 2020 1:00 PM

Proof of Quorum:

Present or	A. Hoffman	K. Stump	Redacted by agreement
[Absent]	Redacted by agreement	Redacted by agreement	
			*non voting
			*non-voting
		_	**Alternate
			***Guest

A. Announcements/New Business

1. The ACUC approved the minutes from the 26 March 2020 meeting.

2. Dr. Stump reported on the program revie	
2020 by a subcommittee of the ACUC which incl	luded Dr. Hoffman, Dr. Stump, Redacted by agreement
Redacted by agreement The	AAALAC Program Description, the
Guide for the Care and Use of Laboratory Anima	ls, 8th Edition, the Animal Welfare Act
Regulations and the AVMA Guidelines for the Eused as the basis for review. The following point	
Program review began with a summary of NIDA COVID-19 pandemic.	's Animal Program response to the

Drs. Stump Redacted by agreement are on site on alternating days, such that one is in the building at each weekday.

Daily ART (Animal Response Team) check-in meetings are being held for all the institutes of NIH.

There is enough feed, bedding and PPE to last for two months.

Supply is limited on the N-95 masks. The N-95 masks are being conserved and the supply should be adequate. N-95 masks are not available to be ordered; they are being used in rhesus husbandry procedures where particulates may be airborne.

The EAP (Employee Assistance Program) is available to both Federal and contract employees if needed for pandemic-related stress.

COVID-19 posters have been received and will be posted within the animal facility.

NIDA is included in the waiver from OLAW for the delay of the spring semiannual inspections. The spring semiannual report is due on April 30th, however the inspections must still be done when the quarantine mandates have ended. It is not yet known if a second report will be required after the inspections are completed.

is being deployed for COVID-19 response. Redacted by agreement and be on site on Fridays.

A secondary method of accountability for weekly eyewash flushing in labs was discussed. This was tabled and will be revisited at a later date.

Dr. Hoffman has set up a Microsoft Teams application for the central placement of ACUC documents and information.

No additional items were introduced by the subcommittee members. There have been no significant changes to the Program Description. No deficiencies in the animal program were noted.

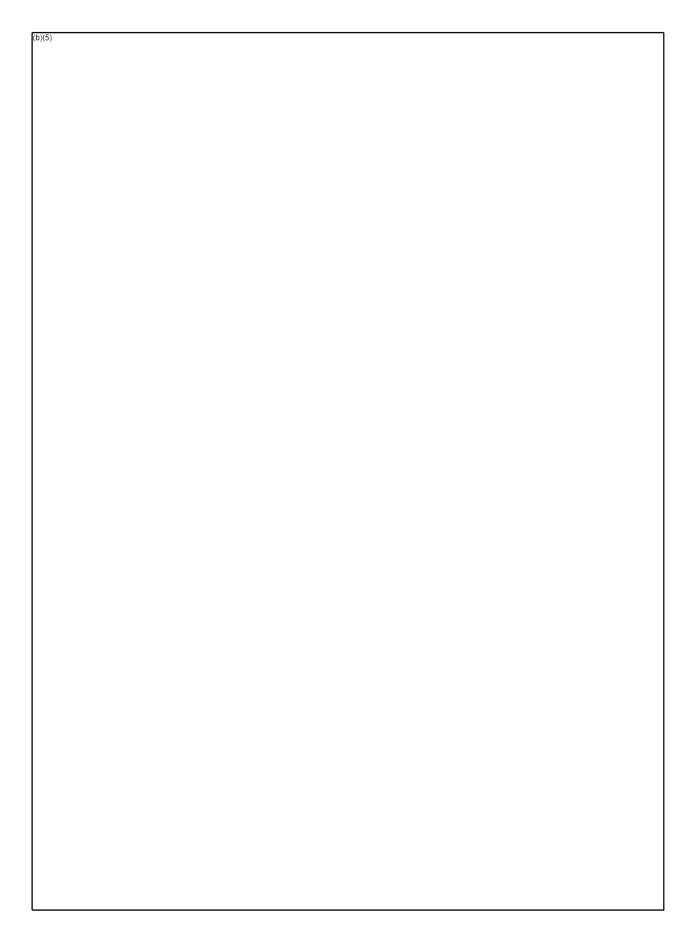
- 3. The spring semi-annual report was reviewed and approved. Dr. Hoffman described the procedure for signing the report electronically.
- 4. No PAV report due to teleworking status due to COVID-19.
- 5. The committee reviewed and approved the Emergency Operating Procedures for COVID.

В.	Review of Initial Submis	ssions, Renewals and Modificatio	ns (Significant Changes- Category
	<u>1):</u>		

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The ACUC approved the annual reviews.
Annual Reviews
 Redacted by agreement Modulatory roles of neurotransmitter systems in the reinforcing effects of new psychoactive substances in rodents (Year 2) Redacted by agreement Role of endogenous cannabinoids in the Ventral Tegmental Area on negative reinforcement (Year 2)
3. Redacted by agreement Psychostimulant-induced neuroplasticity (Year 1)
4. Redacted by agreement Role of Sigma-1 receptor in neuropathic pain (Year 1)
5. Redacted by agreement Study of receptor heteromers in ex vivo mouse models for drug development in neuropsychiatric disorders (Year 1)
A. Report of Significant Changes – Category 2 (Information only)

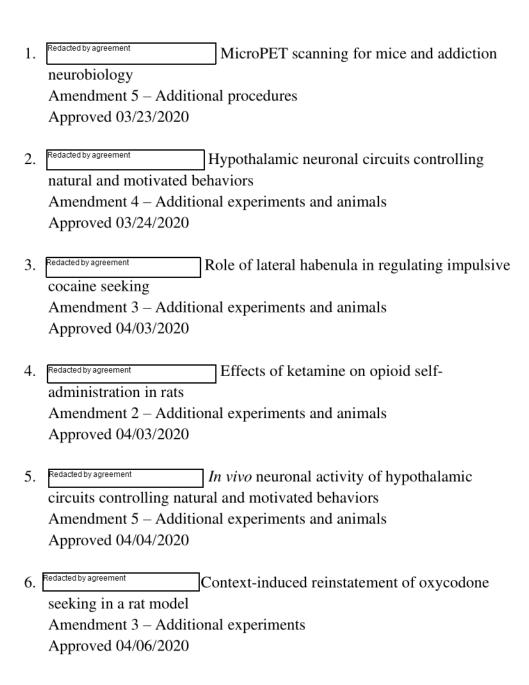
- 1. Administrative Conditional (Category 2.1)
 - a. None
- 2. Administrative Conditional (Category 2.2)
 - a. None
- B. Report of Minor Changes (Unconditional Administrative Category 3):

(Information only)

1. None

C. Report of Designated Member Reviews (follow-up from previous Full Committee Review – Motion 1's)

(Informational only)



- 7. Redacted by agreement Transgenic rodent breeding and colony maintenance Amendment 2 Additional procedure Approved 04/08/2020

 8. Redacted by agreement Neural circuits of withdrawal and reinstatement induced by opioid use in rodents Amendment 2 Additional animals and experiments Approved 04/13/2020

 9. Redacted by agreement Investigation of emotional vulnerability and underlying neural circuits in adolescence Renewal of Redacted by agreement Approved 04/13/2020
- **D.** Report of Designated Member Reviews (outside of Full Committee Review) (Information only)
 - 1. none

NIDA IRP ACUC MINUTES May 28, 2020 1:00 PM

Proof of Quorum:

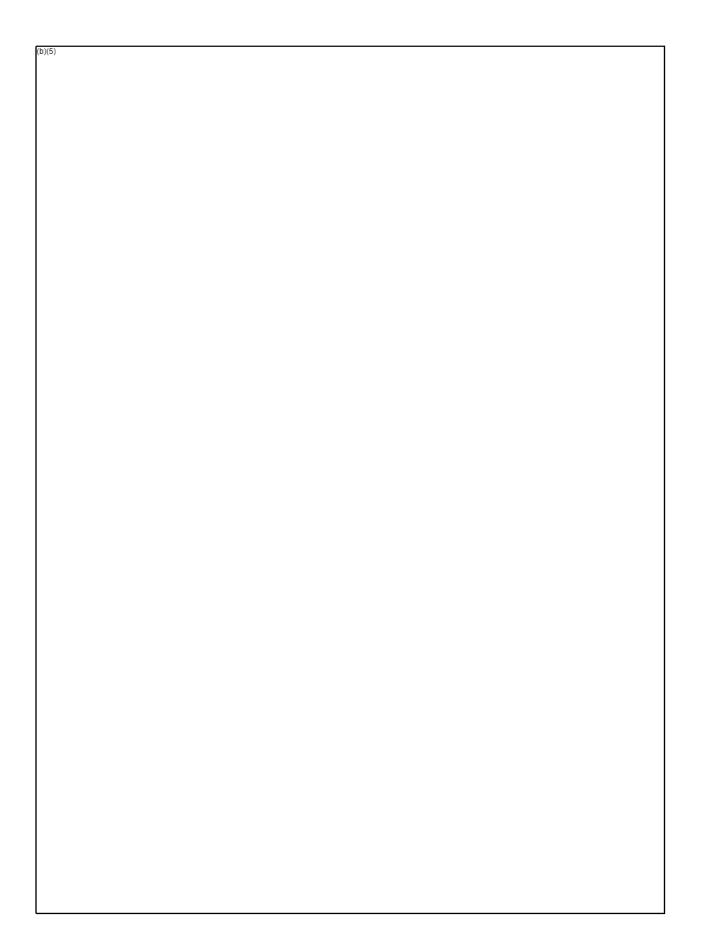
Present or	A. Hoffman	K. Stump	Redacted by agreement
[Absent]	Redacted by agreement	Redacted by agreement	
			*non-voting
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A. Announcements/New Business

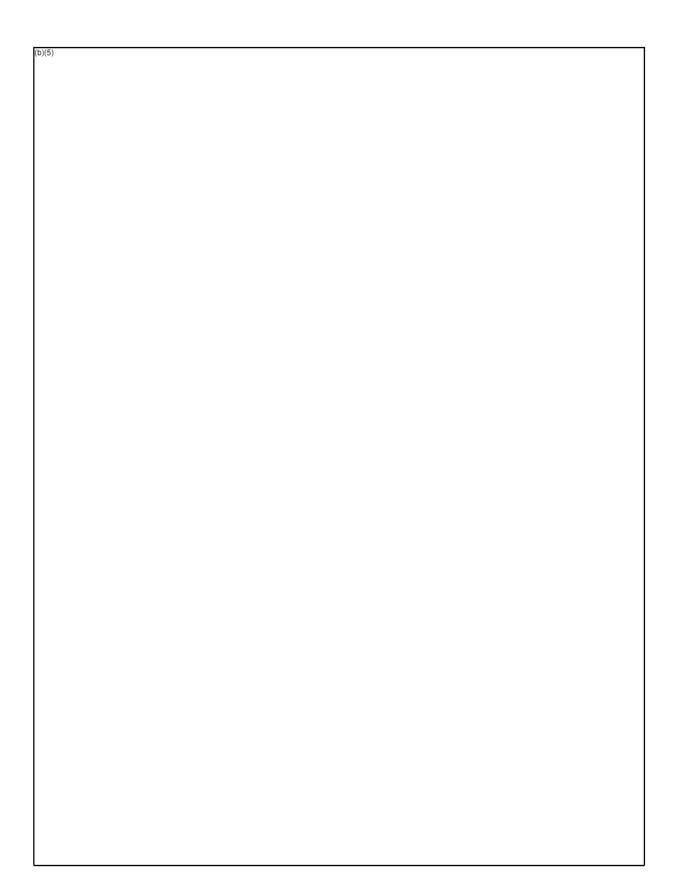
- 1. The ACUC approved the minutes from the 23 April 2020 meeting.
- 2. The ACUC approved the changes (with one minor edit) to the rat and mouse SOPs implementing the new process for carbon dioxide euthanasia.
- 3. Dr. Hoffman informed the committee that for now, we are not mandating hardcopies and physical signatures on ACUC documents. All signatures are being documented via email if not signed electronically.
- 4. No PAV report due to teleworking status due to COVID-19.
- 5. Dr. Stump updated the committee on animal operations; there are no staffing issues and the staff will be increased in relation to the number of staff returning to the physical workspace as they are phased in.
- 6. Redacted by agreement brought up discussion as to how the rhesus monkeys will be protected from COVID. Dr. Stump stated that the NIH animal program directors have been discussing this and feel that the current PPE practices will protect the monkeys and will be modified as necessary if new information is elucidated by the current COVID research. At this time the State Veterinarian for Maryland is not recommending COVID surveillance testing in animals without broad approvals.

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Initial Submission

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i. Redacted by agreement Transcriptional profile of brain reward circuits following
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j. Redacted by agreement Neural mechanisms underlying the incubation of
methamphetamine, cocaine and heroin craving after voluntary abstinence (Year 2)
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A. Report of Significant Changes – Category 2
(Information only)
1. Administrative Conditional (Category 2.1)
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a. None
2. Administrative Conditional (Category 2.2)
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a. Redacted by agreement Neural circuits of motivation and reward i
rodents
Amendment 4 – Addition of strains
Approved 04/16/2020
11pp10104 0 1/10/2020

B. Report of Minor Changes (Unconditional Administrative – Category 3): (Information only)

1. None

C. Report of Designated Member Reviews (follow-up from previous Full Committee Review – Motion 1's)

(Informational only)

1.	Redacted by agreement The effects of zinc availability on cocaine
	reward
	Amendment 2 – Additional animals and experiments
	Approved 04/29/2020
2.	Redacted by agreement Effects of chemogenetic activation of the
۷.	habenula on cocaine self-administration
	Initial Submission
	Approved 04/30/2020
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3.	Neuronal dynamics leading to Fos activation
	Initial Submission
	Approved 04/30/2020
4.	Redacted by agreement Transcriptional dynamics in a cocaine-reward
	memory
	Amendment 3 – Additional animals, personnel and experiments
	Approved 05/01/2020
	••
5.	Role of neurotransmitters in alcohol
	dependence
	Amendment 5 – Additional experiments and animals
	Approved 05/01/2020
	Tippio tod obio ti Bobo
6.	Redacted by agreement Distribution and insertion of silica microspheres
Ο.	into rat neocortex neurons
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Renewal of Redacted by agreement
Approved 05/08/2020

D. Report of Designated Member Reviews (outside of Full Committee Review)

(Information only)

1. none

NIDA IRP ACUC MINUTES June 25, 2020 1:00 PM

Proof of Quorum:

Present or [Absent]	A. Hoffman Redacted by agreement	K. Stump Redacted by agreement	Redacted by agreement
			*non-voting **Alternate ***Guest

A. Announcements/New Business

- 1. The ACUC approved the minutes from the 28 May 2020 meeting.
- 2. No PAV report due to teleworking status due to COVID-19.
- 3. Dr. Stump updated the committee on animal operations; there are no staffing issues and the staff will be increased in relation to the number of staff returning to the physical workspace as they are phased in. A new transport van, loading dock lift, and new caging have been purchased and other facility improvements made during the pandemic.

B.	Revie	ew of Initial Submissions, Renewals and Modifications (Significant C	hanges- Category
	<u>1</u>)	<u>:</u>	
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After careful deliberation, the Committee voted to table this amendment until changed (as per the below list), at which time the protocol can be considered for approval by the designated member review process.

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The ACUC approved the annual reviews.

A. Annual Reviews

(vote to approve all)

i.	Redacted by agreement	Neurochemical correlates of addictive and anti-addictive drug
	actions using micr	odialysis and behavioral pharmacology (Year1)

j.	Redacted by agreement	Holding p	protocol for	transgenic	mice ((Year	1)
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k.	Redacted by agreement	Studies on S	SIGMA-1	receptors in	n primary	cultures	and	brain	slices
	(Year 2)								

1.	Redacted by agreement	Optimization of novel CRF-BP-CRF receptor 2 complex
	modulators for alcohol u	se disorder (Year 1)

B. Report of Significant Changes - Category 2

(Information only)

1. Administrative Conditional (C	Category	2.1)
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a.	None

2. Administrative Conditional (Category 2.2)

a. None

C. Report of Minor Changes (Unconditional Administrative – Category 3):

(Information only)

1. None

D. Report of Designated Member Reviews (follow-up from previous Full Committee Review – Motion 1's)

(Informational only)

1.	Redacted by agreement	Role of Sigma-1 receptor in neuropathic pain
	Amendment 2 -	- Additional experiments and animals
	Approved 06/04	4/2020

2.	Redacted by agreement	Assessment and surveillance of health for quarantine
	rodents and resea	rch rodent colonies
	Renewal of Redacted agreement	by t

Approved 06/08/2020

3.	Redacted by agreement	Neural circuits of motivation and reward in		
	rodents			
	Amendment 6 – Additional experiments and animals			
	Approved 06/08/2020			

4.	Redacted by agreement	Electrophysiological and neurochemical studies
	of cannabinoid actions	in rodent brain slices
	Renewal of Redacted by agreem	ent

5. Redacted by agreement The effects of Transcranial Magnetic Stimulation (TMS) on motivated behaviors
Renewal of Redacted by agreement Approved 06/09/2020

6. Redacted by agreement Examination of neural ensembles that encode reward Initial Submission Approved 06/15/2020

7. Redacted by agreement Role of anatomically and genetically defined cell populations in alcohol dependence Renewal of Redacted by agreement Redacted Between R

E. Report of Designated Member Reviews (outside of Full Committee Review)

Approved 06/08/2020

Approved 06/16/2020

(Information only)

1. None

NIDA IRP ACUC MINUTES July 23, 2020 1:00 PM

Proof of Quorum:

Present or [Absent]	A. Hoffman Redacted by agreement	K. Stump	Redacted by agreement
			*non-voting
			**Alternate
			***Guest

A. Announcements/New Business

- 1. The ACUC approved the minutes from the 25 June 2020 meeting.
- 2. No PAV report due to teleworking status due to COVID-19.
- 3. There were no incident reports or animal welfare concerns.
- 4. There were not policies or SOPs for review.

l	Redacted by agreement MicroPET scanning for mice and addiction
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Page 11

The ACUC approved the annual reviews.

NIDA IRP ACUC MINUTES August 27, 2020 1:00 PM

Proof of Quorum:

Present or [Absent]	A. Hoffman Redacted by agreement	K. Stump	Redacted by agreement
			*non-voting **Alternate ***Guest

A. Announcements/New Business

- 1. Dr. Hoffman apprised the committee of the new Scientific Merit Review for NHP studies process. Studies using NHPs will be reviewed by the SMR committee prior to ACUC review.
- 2. The ACUC approved the minutes from the 23 July 2020 meeting.
- 3. No PAV report due to teleworking status due to COVID-19.
- 4. The Freedom of Information Act request was forwarded to the applicable representative on main campus.

В.	Review of Initi	al Submissions,	Renewals and	Modifications	(Significant	Changes-	<u>Category</u>
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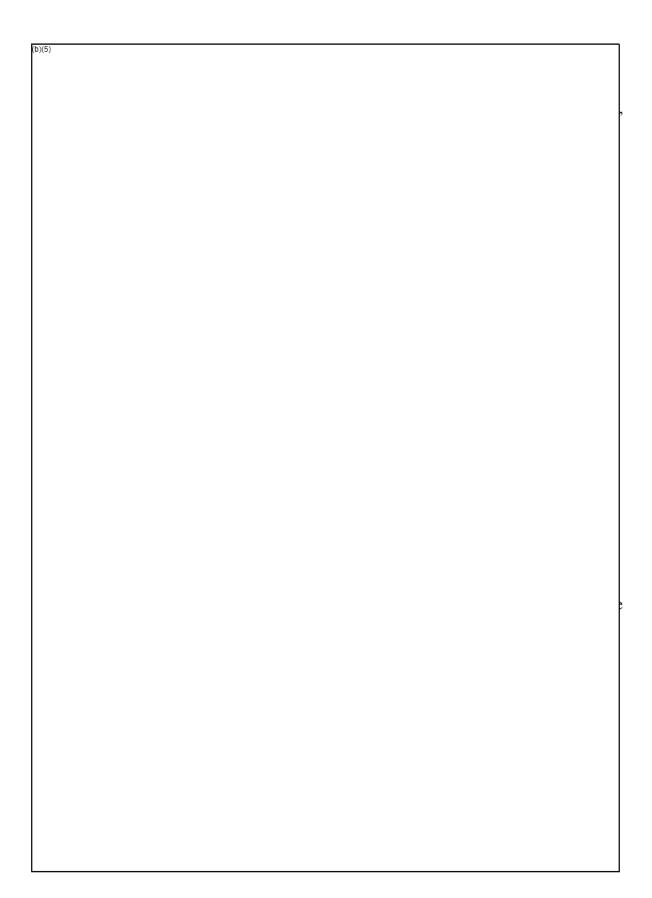
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The ACUC approved the annual reviews.

A. Report of Significant Changes – Category 2

(Information only)

1. Administrative Conditional (Category 2.1)

a. None

2. Administrative Conditional (Category 2.2)

a.	Redacted by agreement	Transcriptional dynamics in a cocaine-reward			
	memory				
	Amendment 4 – Additional strain				
	Approved 08/11/2020				

B. Report of Minor Changes (Unconditional Administrative – Category 3):

(Information only)

1.	Redacted by agreement Electrophysiological and neurochemical studies
	of cannabinoid actions in rodent brain slices
	Amendment 1 – Addition of Personnel
	Approved 07/27/2020
2.	Neural mechanisms underlying the incubation of methamphetamine, cocaine and heroin craving after voluntary
	abstinence
	Amendment 6 – Addition of personnel
	Approved 07/31/2020
3.	Participation of neurotransmitters in drug
	addiction-like behavior in mice
	Amendment 1 – Addition of personnel
	Approved 08/05/2020
4.	Redacted by agreement Behavioral Flexibility and Decision Making
	in Rat Models
	Amendment 9 – Addition of personnel
	Approved 08/06/2020
5.	Redacted by agreement In vivo Brain Imaging during Predictive
	Learning in Rats
	Amendment 0.5 – Addition of personnel
	Approved 08/06/2020
6.	Redacted by agreement Neural circuits of motivation and reward in
	rodents
	Amendment 7 – Addition of personnel
	Approved 08/07/2020
7.	Redacted by agreement Determinants and long-term consequences of
	opioid and cocaine self-administration in squirrel monkeys
	Amendment 4 – Addition of personnel
	Approved 08/07/2020

C. Report of Designated Member Reviews (follow-up from previous Full Committee Review – Motion 1's)

(Informational only)

1. Redacted by agreement Neuropsychopharmacology of psychostimulant and opioid dependence Amendment 1 – Change of PI only Approved 07/23/2020 The effects of Transcranial Magnetic Stimulation (TMS) on the brain Renewal of Redacted by agreement Approved 08/05/2020 Consequences of adolescent and adult nicotine exposure on brain and behavior: A behavioral and fMRI Study Amendment 1 – Change PI only Approved 08/05/2020 Redacted by agreement *In vivo* Brain Imaging during Predictive Learning in Rats Amendment 1 – Additional experiments and animals Approved 08/06/2020 Study of the effects of prenatal morphine exposure 5. on the nucleus accumbens medium spiny neurons development Amendment 3 – Additional animals Approved 08/07/2020 Redacted by agreement The Role of Substance P in aversive learning Initial Submission Approved 08/10/2020 MicroPET scanning for squirrel monkeys Amendment 4 – Additional surgical procedure Approved 08/11/2020

D. Report of Designated Member Reviews (outside of Full Committee Review	D. 3	Report of Designated Membe	r Reviews	(outside of Full	Committee Review
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(Information only)

1. None