NIDDK IACUC Meeting Minutes 19 February 2020

I.	Constance T. Noguchi, Ph.D. NIDDK, Chair called the NIDDK IACUC to order at 1:30 P.M. in Redacted by Redacted by Redacted by
	Members in attendance:
	 ✓ Present ✓ Present ✓ Present ✓ Constance T. Noguchi, Ph.D., Chair, NIDDK, Senior Investigator, Molecular Medicine Branch ✓ Mark B. St. Claire, D.V.M., NIDDK, Animal Program Director
	 ✓ Present ✓ Present Redacted by agreement
	✓ Present ✓ Present
	✓ Present ✓ Present
	✓ Present Other attendees:
	✓ Present □ Present
	Minutes from the 15 January 2020 NIDDK IACUC meeting were distributed. The minutes were unanimously approved.
	Addendums from January 2020 NIDDK IACUC meeting were distributed. The addendums were unanimously approved.
II.	NIDDK Animal Study Proposal Amendment(s)/Annual Review(s)
	(b)(5)
	,
	Decision: Following convened deliberation the committee unanimously agreed to send the amendment to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and
	comments.
	(b)(5)

comments.
(b)(5)
Decision: Following convened deliberation the committee unanimously agreed to send the amendment the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.
(b)(5)
Decision: Following convened deliberation the committee unanimously agreed to send the amendment to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments. NIDDK New Animal Study Proposal(s) and Three-Year Renewal(s) Review
(b)(5)
Decision: Following convened deliberation the committee unanimously agreed to send the protocol to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.
(b)(5)

III.

Decision: Following convened deliberation the committee unanimously agreed to send the amendment to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and

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Decision: Following convened deliberation the committee unanimously agreed to send the protocol to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.

IV. Old Business:

NIDDK 2020 Spring Semi-Annual Animal Program Review

Comments: The animal program review will be done in the month of March and committee members are to send their schedules in to the ACUC manager.

V. New Business:

NIDDK 2020 OLAW Animal Program Review

Comments: The NIH Intramural animal program review will be done the week of March 2-6, 2020. NIDDK is currently scheduled for visitation on March 5, and committee members are to make themselves available for questioning.

Review NIDDK Emergency Plan By: Dr. Mark St. Claire

Comments: SOPs were proofread and grammatical errors noted.

- 3.106A Recent update of the AVMA euthanasia policy necessitates alignment.
- 3.400A Note in point 6 position of rats for cage handling.
- Note in C1b2 that Mark St. Claire is the Team Leader, Redacted by Team Leader and Redacted by as the secondary alternate Team Leader.

Within the Redacted by agreement is the responsible party.

Updated ARAC guidelines are as follows:

Administrative: Collecting and Releasing Animal Images and Audio Recordings, 12-19-19 NEW
Animal Care and Use Procedures: Blood Collection in Mice and Rats, 10/23/19 REVISED
Euthanasia of Rodents Using Carbon Dioxide, 10/23/19 REVISED
Survival Rodent Surgery, 12/19/19 REVISED
Diet Control in Laboratory Animals, 10/23/19 REVISED
Animal Care and Use Committee: Responding to Animal Care & Use Complaints from Outside NIH, 01/25/17 DDIR Policy Memo: Communicating Animal Care and Use Concerns within the NIH Intramural Research Program, 02/28/19 REVISED
Collaborative Animal Studies, 12/19/19 REVISED
Shared and Central Facilities, 10/23/19 REVISED
Review, Approval, & Post Approval Monitoring of Animal Study Proposals Including Designated Member Review, 01/22/20 REVISED
Facility Management: Co-Housing Multiple Species of Laboratory Animals, 10/23/19 REVISED
Personnel Protection in Animal Facilities, 09/25/19 REVISED
General Species Environmental Enrichment, 12/19/19 REVISED
a. Appendix 1: Environmental Enrichment of Rodents, 12/19/19 REVISED
 b. Appendix 2: Environmental Enrichment (Behavioral Management) of Nonhuman Primates, 12/19/19 REVISED

The ASPs to be reviewed for renewal at the March meeting are the following.

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Redacted by agreement			
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Next ACUC meeting is scheduled for Wednesday	18 March 2020 in	Redacted by agreement	on
second floor at 1:30 pm.			

There were no minority opinions expressed and the meeting adjourned at 2:20 pm.

Amendment/Annual Reviews NIDDK February, 2020

Finalized Amendments & Annual ASPs Administratively

<u>Febr</u>	uary 2020
Title	uary 2020 : Nuclear Receptors and Mammalian Development By: Redacted by agreement endment #2
Com	ments: Amendment #2 modifies the above protocol by adding mouse strains En2 ko and En2 cko [Redacted by agreement] and 10 mice to year 1 and 20 to years 2 & 3 each for a total of 50 (Column
Ame	endment #15 Imments: Amendment #15 modifies the above protocol by adding camera documentation in Redacted by agree
Kidn Com	r: The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Rey By Redacted by agreement Amendment #5 The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Amendment #5 The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Amendment #5 The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Amendment #5 The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Amendment #5 The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Amendment #5 The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Amendment #5 The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Amendment #5 The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Amendment #5 The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Teeth an
hydr	ocholoride anti-anesthesia and removing avertin. Analysis of Initiation of Meiotic Recombination in Mammals By Redacted by agreement
Com Stra8	
Ame	e: Analysis of G Protein-coupled Receptor Mutant Mice By: Redacted by agreement endment #19
S961	ments: Amendment #19 modifies the above protocol by adding S961 and procedure "Delivery of I, an insulin receptor antagonist, via osmotic mini-pumps, to mice".
Redact	Redacted by agreement Amendment #15 Amendment #15 Amendment #15 modifies the above protocol by adding mouse strain Rgs7-cKO from the
Title:	Ind 78 mice for year 3 (Column C). Metabolic Studies of Mouse Models of Obesity and Diabetes By: Redacted by agreement
Com 8/B2	aments: Amendment #5 modifies the above protocol by removing animal procedure room A12 and changing locations of procedures within already approved rooms and adding Redacted by agreement e group of surgical investigators.
Title:	Tracer Studies of Metabolism in Mice By: Redacted by agreement Amendment #3

Comments: Amendment #3 modifies the above protocol by adding animal procedure room Redacted by agreement
and Redacted by to the group of surgical investigators.
Title: Analysis of G Protein-coupled Receptor Mutant Mice By: IRedacted by agreement
Amendment #20
Comments: Amendment #20 modifies the above protocol by adding mouse strain Gna12-/-; Gna13 fl/fl mice from Redacted by agreement and 4 mice to year 2 (Column C).
mice from Redacted by agreement and 4 mice to year 2 (Column C).
Approved at ACUC Meeting February 2020
Expedited Review February 2020
Annual Reviews Title: In Vivo Activity of Small Ligands for G-Protein-coupled Receptors By: Redacted by agreement
Title: O-GlcNAcase & O-linked GlcNAc Transferase in Diabetes and Neurodegenerative Disease By Redacted by Redacted by agreement
Title: Metabolic Studies of Mouse Models of Obesity and Diabetes By: Redacted by agreement
Title: Ascorbic Acid, Dehydroascorbic Acid, and Glucose Transport in Xenopus Laevis Oocytes By: Redacted by Redacted by agreement
Title: Mouse Models for Erythropoietin Signaling By:
Title: Development of Mouse Model for the Trinucleotide Repeat Expansion Disorders By: Redacted by agreement Redacted by agreement
Finalized ACDs 0 Those Ween December
Finalized ASPs & Three Year Renewals Designated Review
February 2020
Title: Treatment of Sepsis and Sepsis-induced Acute Kidney Injury By:
18 Amendment #10
Comments: Amendment #10 modifies the above protocol by adding animal procedure location Redacted by addressed imaging to all experimental protocols, add heart failure model, alternative coagulated cecal contents for CLP, and major surgery for transverse aortic constriction. Redacted by addressed all issues from 20 November, 2019 meeting. The ASP was presented for Designated
Review and approval was given on 13 February, 2020.
Title: Effect of Environment, Nutrients and Pharmacologic Agents on Mouse Energy Homeostasis and Body Temperature By: Redacted by agreement Amendment #16
Comments: Amendment #16 modifies the above protocol by adding procedures; "Part 31, recording
electroencephalograms (EEG)", "Part 32, measurement of body temperature in different places", and
"Part 33, a new method for measuring tail temperature".
Review and approval was given on 03 February, 2020. The ASP was presented for Designated Review and approval was given on 03 February, 2020.

Three year renewal

February 2020

Initial Submission

February 2020

Title: Potential Antineoplastic Effects of Small Molecule TSHR Ligands in a Mouse model of Thyroid Cancer By: Redacted by agreement

Comments: The above protocol is an initial submission. Redacted by agreement addressed all issues from 20 November, 2019 meeting. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 06 January, 2020. Final Approval letter sent 02/03/2020.

Tabled Amendment Not Yet Re-Submitted

Deactivation of Animal Study Protocol

February 2020

(b)(5)

Deactivation 02/26/2020.

NIDDK IACUC Meeting Minutes

18 March 2020

I.	Constance T. Noguchi, Ph.D. NIDDK, Chair called the NIDDK IACUC to order at 1:35 P.M. in Building 3, Rm. 2E04. Majority of members attended via teleconference.							
	Members in attendance:							
	 ✓ Present □ Present □ Dresent □ Constance T. Noguchi, Ph.D., Chair, NIDDK, Senior Investigator, Molecular Medicine Branch □ Mark B. St. Claire, D.V.M., NIDDK, Animal Program Director 							
	✓ Present ✓ Present Redacted by agreement							
	✓ Present							
	✓ Present ✓ Present							
	✓ Present □ Present							
	Other attendees: ✓ Present							
	□ Present							
	Minutes from the 19 February 2020 NIDDK IACUC meeting were distributed. The minutes were unanimously approved.							
	Addendums from February 2020 NIDDK IACUC meeting were distributed. The addendums were unanimously approved.							
II.	NIDDK Animal Study Proposal Amendment(s)/Annual Review(s)							
	(b)(5)							
	Decision: Following convened deliberation the committee unanimously agreed to send the amendment to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.							
	for very							
	(b)(5)							

Decision: Following convened deliberation the committee unanimously agreed to send the amendment to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.

Title: <i>The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and Kidney</i> By: Redacted by agreement Amendment #6
Comments: A fully convened IACUC reviewed the above protocol.
Decision: Following convened deliberation the committee unanimously agreed to approve the amendment.
NIDDK New Animal Study Proposal(s) and Three-Year Renewal(s) Review b)(5)
Decision: Following convened deliberation the committee unanimously agreed to send the protocol back to the Principal Investigator for revision and then to come before Full Committee Review (FCR) once the Principal Investigator responds to questions and comments.
(b)(5)

III.

(b)(5)
Decision: Following convened deliberation the committee unanimously agreed to send the protocol to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.
(b)(5)
(0)(3)
Decision: Following convened deliberation the committee unanimously agreed to send the protocol to the
Designated Member Review (DMR) process once the Principal Investigator responds to questions and
comments.
Old Business:
Review 2017 AAALACi site visit
Comments: The safety officer is in the process of generating computer code to generate formulations
from previous publications that have addressed the chemical and pharmacological properties of Non-
Pharmaceutical Grade Compounds (NPGC).
Discuss OLAW site visit
Comments: The safety officer and veterinarian will compose a table of common pharmaceutical
compounds with dosages to be reviewed at the April meeting for Veterinarian Verification and
Consultation (VVC), Category 2: NIDDK Policy on Changes to Animal Study Protocols.
New Business:
Animal Welfare Concern
Title: Mouse Models of Liver Diseases By: Redacted by agreement
Comments: A fully convened IACUC reviewed the above incident. The committee wants the following addressed. The IACUC chairperson will correspond with Redacted by and request a letter to be submitted by
March 25, 2020 datailing the following:

IV.

V.

March 25, 2020 detailing the following:

1. Provide an explanation for the unapproved use of retrorsine in mice which also resulted in several deaths.

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۷.	w nat action	on nas	been or	will be	taken te	address	unis	immediate	situation?

3.	What action	will be take	n in effor	t to prevent	this from	happening in	the future?
\sim .	TT IIM WOULDIE	TITLE OF CHILD		t to provent	CILLO II OIII	map pointing in	mo income.

After the receipt of the letter from Redacted by additional review will be discussed via email. All personnel on the ASP will retake the OACU online training, Using Animals in NIH Intramural Research: Guidelines for Principal Investigators. The attending veterinarian will write a letter to OACU outlining the changes made and make the final report to OLAW.

Review
(b)(5)
Comments: It was unianimously agreed to review this at the April meeting due to time constraints.
Title: NIDDK LASS Rodent Survival Surgery Checklist Draft By
Comments: Following convened deliberation the committee unanimously agreed to approve the checklist to be added for surgical procedures.
Updated ARAC guidelines are as follows:
Administrative: None Animal Care and Use Procedures: None Animal Care and Use Committee: None
Facility Management: None
The ASPs to be reviewed for renewal at the April meeting are the following. Redacted by agreement
Next ACUC meeting is scheduled for <u>Wednesday 15 April 2020</u> in Redacted by agreement on second floor at 1:30 pm.

There were no minority opinions expressed and the meeting adjourned at 3:00 pm.

Amendment/Annual Reviews NIDDK March, 2020

Finalized Amendments & Annual ASPs
Administratively
March 2020 Title: Epigenetic Regulation of PPAR, and Adipogenesis By Redacted by agreement Amendment #15
Comments: Amendment #15 modifies the above protocol by adding Redacted by and removing Redacted by
Redacted by agreement agreement agreement
<u>VCC</u>
March 2020 Title: Control Name of States C. Brotein Singuling in Matchelia Regulation D. Redacted by agreement
Title: Central Nervous System G Protein Signaling in Metabolic Regulation By: Redacted by Amendment #6
Comments: Amendment #6 modifies the above protocol by modifying the cage wire and water for mice
with cranial implants to prevent getting caught and for single housing the mice due to chewing on the
implants.
Title: Relacted by agreement
Title: Role of Cell Cycle Regulators in Diabetes and Obesity By: Redacted by agreement Amendment #5
Comments: Amendment #5 modifies the above protocol by adding mouse strain 129S- <i>Pitx2</i> ^{tm4(cre),Jfm} /Mmucd
from MMRRC and 30 mice to years 2 & 3 each for a total of 60 (Column C).
Approved at ACUC Meeting March 2020
Title: The Role of the Jak/Stat Signaling Pathways in the Mammary Gland, Salivary gland, Teeth and
Kidney By: Redacted by agreement Amendment #6
Comments: Amendment #6 modifies the above protocol by adding Buprenorphine SR.
Redacted by agreement addressed all issues from 18 March, 2020 meeting.
Expedited Review Moreh 2020
March 2020
Annual Reviews
Title: Mouse Models of Disordered Sphingolipid Metabolism: Characterization and Therapy By Redacted by agreement
Redacted by agreement
Title: Molecular Mechanisms of Endocrine Tumorigenesis in Mouse Model of Multiple Endocrine Neoplasia Type 1
(MEN1) By: Redacted by agreement
Title: The Role of TSH receptors in Bone Homeostasis By: Redacted by agreement
Title: NIDDK Transgenic Rodent Core Facility: Production of Trangenic Rodents, Embryo and Sperm
Cryopreservation, Rederivation, Intracytoplasmic Sperm Injection (ICSI), In vitro fertilization (IVF) By:
Redacted by agreement
Title: NIDDK Rodent Holding and Breeding Protocol By Redacted by agreement
Title: Embryonic and Fetal Globin gene expression By Redacted by agreement
Finalized ASPs & Three Year Renewals
Designated Review

March 2020

effect of diet, exercise and oxygen variations on NO metabolite fluxes in mammalian body By: Dr.
Redacted by agreement Amendment # 7
Comments: Amendment #/ modifies the above protocol by adding procedures "Intraocular pressure (IOP) measurements" and "Bolus administration of ¹⁵ N-nitrate and ¹⁵ N-nitrite to rats and mice by oral
gavage:".
Dr. Noguchi addressed all issues from 19 February, 2020 meeting. The ASP was presented for
Designated Review and approval was given on 02 March, 2020.
Title: Analysis of G Protein-coupled Receptor Mutant Mice By: Redacted by agreement
Amendment #18
Comments: Amendment #18 modifies the above protocol by adding 48 mice (16 Column C & 32 Column
D) and procedures "Treatment of WT mice with N-methyl Leukotriene C4 (NMLC4)" and "Intraperitoneal
Implantation of ALZET osmotic mini-pumps". Redacted by hadrassed all issues from 10 February 2020 meeting. The ASP was presented for Designated.
lagreement addressed an issues from 19 reordary, 2020 meeting. The ASP was presented for Designated
Review and approval was given on 06 March, 2020.
Title: Unravelling Immunoregulatory Circuits of T cells in Kidney Diseases By Redacted by agreement
Redacted by agreement Amendment #5
Comments: Amendment #5 modifies the above protocol by adding NHLBI MPC behavioral tests; Hole
Board Test, Reverse Light Cycle, Running Wheel, Sucrose Consumption Test, Sociability Test,
Contextual Learning, Pre-pulse Inhibition and Phenotyper Home Cage Monitoring.
Redacted by agreement addressed all issues from 19 February, 2020 meeting. The ASP was presented for
Designated Review and approval was given on 11 March, 2020.
Designated review and approval was given on 11 March, 2020.
Title: Transgenesis for Investigations of Germ Cell Development and Fertilization By: Redacted by agreement Amendment # 7
Comments: Amendment #7 modifies the above protocol by adding procedure "In vivo Mouse Testis
Microinjection and Electroporation".
Redacted by addressed all issues from 19 February 2020 meeting. The ASP was presented for Designated
Review and approval was given on 16 March, 2020.
Three year renewal
March 2020
Title: Anti-cancer Effects and Mechanisms of Ascorbic Acid By
Comments: Redacted by addressed all issues from 19 February, 2020 meeting. The ASP was presented for
Designated Review and approval was given on 20 March, 2020.
Final Approval letter sent 03/20/2020.
<u>Initial Submission</u>
March 2020

Tabled Amendment Not Yet Re-Submitted

Deactivation of Animal Study Protocol

March 2020

NIDDK IACUC Meeting Minutes 15 April 2020

	15 April 2020			
I.	I. Constance T. Noguchi, Ph.D. NIDDK, Chair called the NIDDK IACUC to order at 1:30 P.M. Members attended via WebEx.			
Members in attendance:				
	 ✓ Present ✓ Present ✓ Present ✓ Present ✓ Constance T. Noguchi, Ph.D., Chair, NIDDK, Senior Investigator, Molecular Medicine Branch ✓ Mark B. St. Claire, D.V.M., NIDDK, Animal Program Director 			
	✓ Present ✓ Present ✓ Present			
	✓ Present			
	✓ Present ✓ Present			
	✓ Present ✓ Present			
	Other attendees:			
	✓ Present ✓ Present			
	Minutes from the 18 March 2020 NIDDK IACUC meeting were distributed. The minutes were unanimously approved. Addendums from March 2020 NIDDK IACUC meeting were distributed. The addendums were unanimously approved.			
II.	. NIDDK Animal Study Proposal Amendment(s)/Annual Review(s)			
	Title: Mouse Models of Liver Diseases By: Redacted by agreement #3			
	Comments: A fully convened IACUC reviewed the above protocol.			
	Decision: Following convened deliberation the committee unanimously agreed to approve the amendment.			
III.	NIDDK New Animal Study Proposal(s) and Three-Year Renewal(s) Review			
	(b)(5)			

(b)(5	5)
	Decision: Following convened deliberation the committee unanimously agreed to send the protocol to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.
	(b)(5)
	Decision: Following convened deliberation the committee unanimously agreed to send the protocol to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.
<i>.</i>	Old Business:
	Animal Welfare Concern: Follow-up
	Title: Mouse Models of Liver Diseases By: Redacted by agreement
	Comments: A fully convened IACUC reviewed the above incident response and corresponding letter to
	Dr. Gottsman. All personnel on the ASP will retake the OACU online training, Using Animals in NIH Intramural Research: Guidelines for Principal Investigators Redacted by will submit a TSR for injections and
	Intramural Research: Guidelines for Principal Investigators. Redacted by will submit a TSR for injections and be supervised by DVR staff for the next 3 occasions. The committee wants the letter to be submitted to
	OACU, OLAW and Dr. Gottsman with the actions submitted to rectify the situation and retrain personnel.
	New Business:
	Review: 2019 Spring Semi-annual inspection with ad hocs.
	Comments: A fully convened IACUC reviewed the above semi-annual inspection report. We accept the
	following DVR and NIAID as qualified ad hoc team members via email sent out on March 31, 2020; Redacted by
	Redacted by agreement
	Following convened deliberation the committee unanimously agreed to approve the report. The signature

page will be sent out after meeting.

Review: NIDDK Review Process for Significant Changes (Modifications) to Animal Study Proposals Guideline.

Comments: The safety officer and veterinarian will compose a table of common pharmaceutical compounds with dosages to be reviewed at the May meeting for Veterinarian Verification and Consultation (VVC), Category 2. It was unianimously agreed to approve the update in terminology.

Review: Behavior test Policy 1.02 By: Dr. Mark St. Claire, updated with new NHLBI MPC tests.

Comments: It was unianimously agreed to approve the updates.

SOP Review:

3.502	Animal Identification and Completion of Cage Cards
3.600	Sample Collection to Genotype Mice by Tail Biopsy
3.601	Rodent Enrichment
4.000	Decontamination of Used Equipment of Animal Caging upon Entry into the Animal Facility
4.101	Sanitation of Corridors
4.102	Sanitation of Cage Wash Area and Supporting Areas
4.103	Sanitation-Storage Rooms
4.104	Sanitation of Racks
4.105	Sanitation of Procedure Rooms
4.105.1	Daily, Weekly and Monthly Procedures for Redacted by agreement
4.106	Cleaning and Maintenance of Building 8 Animal Facility Dock and Dock Hallway
4.107	Cleaning of Refrigerators and Freezers
4.308	Operation, Cleaning, and Maintenance of the Stay-Clean Workbench Unit
4.402A	Autoclave Technique for Rodent Chow, Micro-Isolator Cages, and Drinking Water
4.501	Operation of the Two-Station Anesthesia Unit
4.504	Operation, Cleaning, and Maintenance of the ThermoCare Unit
6.003	Husbandry Procedures for African Clawed Frogs (Xenopus laevis)
6.003A	Xenopus laevis Daily Observation Log

Comments: It was unianimously agreed to approve the SOPs with minor typo corrections.

Updated ARAC guidelines are as follows:

Administrative: None

Animal Care and Use Procedures: None **Animal Care and Use Committee:** None

Facility Management: None

The ASPs to be reviewed for renewal at the May meeting	ng are the following.	
Redacted by agreement		
Next ACUC meeting is scheduled for Wednesday 20 N	May 2020 in Redacted by agreement on secon	nd
floor at 1:30 pm or via WebEx.		

There were no minority opinions expressed and the meeting adjourned at 2:30 pm.

Amendment/Annual Reviews NIDDK April, 2020

Finalized Amendments & Annual ASPs
Administratively
April 2020
Title: Mouse Models for Erythropoietin Signaling By
Amendment #4
Comments: Amendment #4 modifies the above protocol by removing Redacted by agreement
Title: Nitrate/nitrite/nitric oxide metabolic pathway in relation to classical nitric oxide pathway and the
effect of diet exercise and oxygen variations on NO metabolite fluxes in mammalian body By: Dr
effect of diet, exercise and oxygen variations on NO metabolite fluxes in mammalian body By: Dr. Redacted by agreement Amendment # 8
Comments: Amendment #8 modifies the above protocol by removing Redacted by agreement
Comments: Amendment #8 modifies the above protocol by removing
Title: Protective Activity of Erythropoietin/Erythropoietin Receptor in Progenitor Cells By Redacted by agreement Amendment #5
Timenament #5
Comments: Amendment #5 modifies the above protocol by removing Redacted by agreement
<u>VVC</u>
Approved at ACUC Meeting
<u>April 2020</u>
Title: Mouse Models of Liver Diseases By: Redacted by agreement Amendment
#3
Comments: Amendment #3 modifies the above protocol by limiting cage changing by 1-2 weeks for newly born litters and gravid dams that are about to deliver to reduce stress and increase survivability. Adding mouse strain C57BL/6J-Tg(SLC10A1)39Mvw/J, for Fah ^{-/-} mice, uPA adenovirus (CuRx TM uPA Liver Tx Enhancer, Yecuris) is pretreated one day before engraftment by retro-orbital injection to induce liver injury, increasing Nitisinone stock solution to 4mg/mL and NTBC cycling schedule.
Expedited Review
Annual Reviews
Title: Understanding the Pathogenesis of Nonalcoholic Fatty Liver Disease (NAFLD) By
edacted by agreement
Finalized ASPs & Three Year Renewals
Designated Review
April 2020
Title: Unravelling Immunoregulatory Circuits of T cells in Kidney Diseases By: Redacted by agreement Amendment #6
Comments: Amendment #6 modifies the above protocol by adding euthanasia by exsanguination for
rapid tissue fixation.
addressed an issues from 16 water, 2020 meeting. The 7151 was presented for
Designated Review and approval was given on 13 April, 2020.

Three year renewal

Initial Submission

Tabled Amendment Not Yet Re-Submitted

Deactivation of Animal Study Protocol

April 2020 (b)(5)

Deactivation 04/08/2020.

NIDDK IACUC Meeting Minutes

20 May 2020

I.	Constance T. Noguchi, Ph.D. NIDDK, Chair called the NIDDK IACUC to order at 1:30 P.M. Members attended via WebEx.		
	Members in attendance:		
	 ✓ Present 		
	□ Present ✓ Present ✓ Present ✓ Present		
	Other attendees: ✓ Present ✓ Present		
Minutes from the 15 April 2020 NIDDK IACUC meeting were distributed. The minutes were unanimously approved.			
	Addendums from April 2020 NIDDK IACUC meeting were distributed. The addendums were unanimously approved.		
II.	NIDDK Animal Study Proposal Amendment(s)/Annual Review(s)		
III.	NIDDK New Animal Study Proposal(s) and Three-Year Renewal(s) Review		
	(b)(5)		

Decision: Following convened deliberation the committee unanimously agreed to send the protocol to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.



Decision: Following convened deliberation the committee unanimously agreed to send the protocol to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.

Title: Studies of Purinergic Receptors (P2Y₆ and P2Y₁₄) mutant mice By: Redacted by agreement (THREE YEAR RENEWAL)

Comments: A fully convened IACUC reviewed the above protocol.

Decision: Following convened deliberation the committee unanimously agreed to approve the protocol.

IV. Old Business:

V. New Business:

Animal Facility Scheduling:

Comments: A fully convened IACUC discussed the easing of telework restrictions on campus and the return of personnel to labs and animal facilities. Concern was expressed over; status of PPE, COVID-19 personnel contamination of facilities, keeping social distancing, cleaning of animal rooms and common areas in the animal facilities. It was suggested to post a schedule for rooms with sign up to prevent overlapping of room usage. Additional concerns were; how to make sure personnel only work the time and place scheduled, how to distribute the schedule. The Animal Program Manager will follow up on this including facility staff and the APD. Outlook calendar for rooms is a possible format.

SOP Review:

3.103	Quarantine for Disease Control
3.104	Small Animal Laboratory Clinical Records
3.105	Handling of Dead Animal Carcasses
3.107	Procedures in Sentinelization of Sentinel Records
3.107.1	Guidelines for the Sentinel QA Program
3.108	Animal Caretaker Daily Responsibilities
3.108.1	Guidelines for Checking Pest Management Rodent Traps
3.110	Storage and Handling of Feed in Animal Rooms

3.111	Bedding	
3.113	Packing Rodents for Extramural Shipment	
3.200	Animal Husbandry Procedures	
3.201	Animal Husbandry Procedures – Immune Competent Mice	
3.202	Labeling of cages for Fasting, Feed Intake Studies, Special Diets and Surgery	
3.202A	Weekend and Holiday Observation of Mice housed in Metabolic Core in Redacted by agreement Redacted by agreement	
3.203	Housing and Care of Immune Compromised Mice	
3.204	Animal Husbandry Procedure for Rats	
3.213	Use of Wavicide 01	
3.213.1	Preparation of Trimethoprim-Sulfa treated water	
3.214	Preparation of Avertin	
omments: It was unianimously agreed to approve the SOPs with minor typo corrections.		

Comments: It was unianimously agreed to approve the SOPs with minor typo corrections.

Updated ARAC guidelines are as follows:

Administrative: None

Animal Care and Use Procedures: None Animal Care and Use Committee: None

Facility Management: None

The ASPs to be reviewed for renewal at the June meeting are the following.

Redacted by agreement	7	
		_
Next ACUC meeting is scheduled for Wednesday 17.	June 2020 in Redacted by agreement	on second
floor at 1:30 pm or via WebEx.		

There were no minority opinions expressed and the meeting adjourned at 2:30 pm.

Amendment/Annual Reviews NIDDK May, 2020

Finalized Amendments & Annual ASPs
<u>Administratively</u>
May 2020
Title: Nitrate/nitrite/nitric oxide metabolic pathway in relation to classical nitric oxide pathway and the <u>effect of diet. exercise and oxygen variation</u> s on NO metabolite fluxes in mammalian body By: Dr.
Redacted by agreement Amendment # 9
Comments: Amendment #9 modifies the above protocol by removing Redacted by agreement
Redacted by agreement
<u>VVC</u>
<u>May 2020</u>
Assessed to ACHC Marking
Approved at ACUC Meeting May 2020
Title: Studies of Purinergic Receptors (P2Y ₆ and P2Y ₁₄) mutant mice By: Redacted by agreement
edacted by agreement (THREE YEAR RENEWAL)
()
Expedited Review
<u>May 2020</u>
Annual Reviews Title: Cross Come Regulation and Physiological Roles of C. Proteins By Pedacted by agreement
Title: Gnas Gene Regulation and Physiological Roles of G Proteins By: Redacted by agreement
Title: Analysis of the Molecular Targets for Therapy in Endocrine Tumors By: Redacted by agreement
Finalized ASPs & Three Year Renewals
<u>Designated Review</u> May 2020
May 2020 Title: Mouse Models of Disordered Sphingolipid Metabolism: Characterization and Therapy By: Redacted by
Redacted by agreement Amendment #5
Comments: Amendment #5 modifies the above protocol by removing Redacted by agreement
Redacte 40 mice to year 3 (Col C) for procedure "Hematopoietic stem cell transplantation" and RD-20-IV-
10.
Redacted by agreement addressed all issues from 18 March, 2020 meeting. The ASP was presented for
Designated Review and approval was given on 07 May, 2020.
Three year renewal
May 2020
Title: Study of Mice Lacking the Na ⁺ Dependent Ascorbic Acid Transporter – SVCT1 By: Redacted by agreement
Redacted by agreement (THREE YEAR RENEWAL)
Comments: Redacted by agreement addressed all issues from 18 March, 2020 meeting. The ASP was presented
for Designated Review and approval was given on 22 April, 2020.
Final Approval letter sent 05/08/2020.
Title: Diagnosis and Treatment of Acute Kidney Injury By: Redacted by agreement
(THREE YEAR RENEWAL)

Comments: Redacted by addressed	l all issues from 18 March, 2020 meeting.	The ASP was presented
for Designated Review and approval v	vas given on 27 April, 2020.	
Final Approval letter sent 05/11/2020.		
Title: Rodent Models of Glomeruloscle	erosis By:	(THREE YEAR
RENEWAL)		`
Comments Redacted by agreement address	ed all issues from 15 April, 2020 meeting.	The ASP was presented
for Designated Review and approval v		•
Final Approval letter sent 05/15/2020.	. ,	
<u>Initial Submission</u>		
<u>May 2020</u>		
TILL AND SI	*** *	
Tabled Amendment Not Yet Re-Sub	omitted	
Deactivation of Animal Study Protoco	1	
May 2020	F	
<u>Ividy 2020</u> (b)(5)		
Deactivation 05/26/2020.		

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NIDDK IACUC Meeting Minutes 17 June 2020

I.	Constance T. Noguchi, Ph.D. NIDDK, Chair called the NIDDK IACUC to order at 1:39 P.M. Members attended via WebEx.
	Members in attendance:
	 ✓ Present ✓ Present ✓ Present ✓ Mark B. St. Claire, D.V.M., NIDDK, Animal Program Director
	✓ Present ✓ Present Redacted by agreement
	✓ Present
	□ Present ✓ Present
	✓ Present ✓ Present
	Other attendees:
	✓ Present ✓ Present
	Minutes from the 20 May 2020 NIDDK IACUC meeting were distributed. The minutes were unanimously approved.
	Addendums from May 2020 NIDDK IACUC meeting were distributed. The addendums were unanimously approved.
Π.	NIDDK Animal Study Proposal Amendment(s)/Annual Review(s)
((b)(5)
_	Decision: Following convened deliberation the committee unanimously agreed to send the amendment to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.
III.	NIDDK New Animal Study Proposal(s) and Three-Year Renewal(s) Review
	(b)(5)

Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.
Title: Regulation of Systemic and Hepatic Immune Responses by the Microbiome By: Redacted by Agreement THREE YEAR RENEWAL)
Comments: A fully convened IACUC reviewed the above protocol. It was noted that the ASP is beautifully written and very clear. Sect B, pg 2 "Wildling/Balb/c mice: C57BL/6 mice" correct typo to Balb/c. Sect K, it was noted that 4018 is active but doesn't show in the HealthRx. The safety officer suggested to update the PRD with the new ASP so it will show up.
Decision: Following convened deliberation the committee unanimously agreed to approve the protocol.
Decision: Following convened deliberation the committee unanimously agreed to send the protocol to the Designated Member Review (DMR) process once the Principal Investigator responds to questions and comments.
b)(5)
Decision: Following convened deliberation the committee unanimously agreed to send the protocol to the
Designated Member Review (DMR) process once the Principal Investigator responds to questions and

comments.

IV. **Old Business:**

V. **New Business:**

In order to follow OLAWs requirement for Semi-annual inspection report, the inspection of Redacted by needs to be completed by 07/30/2020.

Comments: A fully convened IACUC unanimously agreed to accept Redacted by NIAID as qualified ad hoc team members to inspect NIDDK animal rooms on June 18, 2020. The 2020 Fall semi-annual inspection will occur in the fall and it will be notated that Redacted was inspected by qualified ad hoc team members

in June 2020 and will be again inspected during the Fall semi-annual inspection in September to maintain our normal inspection schedule.

Updated ARAC guidelines are as follows:		
Administrative: None		
Animal Care and Use Procedures: None		
Animal Care and Use Committee: None		
Facility Management: None		
The ASPs to be reviewed for renewal at the July meeting Redacted by agreement Next ACUC meeting is scheduled for Wednesday 15 Jul floor at 1:30 pm or via WebEx.	Podacted by agreement	cond

There were no minority opinions expressed and the meeting adjourned at 2:35 pm.

Amendment/Annual Reviews NIDDK June, 2020

Finalized Amendments & Annual ASPs
Administratively Luna 2020
<u>June 2020</u>
<u>VVC</u>
<u>June 2020</u>
Title: Small Molecule TSHR Antagonists in a Mouse Model of Autoimmune Graves' Disease By: Redacted by Redacted by agreement
Amendment #1 Comments: Amendment #1 modifies the above protocol by adding CO2 as a method of euthanasia per
DVR SOP.
Approved at ACUC Meeting
June 2020 Title Production of Superior and Househing Producted by agreement
Title: Regulation of Systemic and Hepatic Immune Responses by the Microbiome By: Redacted by agreement (THREE YEAR RENEWAL)
(TIREE TEAR REIVE WAL)
Expedited Review
<u>June 2020</u>
Annual Reviews
Title: Genetic Manipulation of the Murine Pkd1 Gene and Analysis of its Effects By: Redacted by agreement
Redacted by agreement
Title: NIDDK Mouse CRISPR/Cas9 Genome Editing Facility: Production of Genome Modified Mice By:
Redacted by agreement
Title: Unraveling Functional Circuits Modulating Food Intake By
Redacted by
Finalized ASPs & Three Year Renewals
<u>Designated Review</u>
June 2020 Title: In Vivo Activity of Small Ligands for G-Protein-coupled Receptors By Redacted by agreement
Redacted by agreement Amendment #5
Comments: Amendment #5 modifies the above protocol by adding Redacted by agreement 284 mice (Column C)
to years 2 & 3, humanized TSHR knock-in mice on Balb/c background, Protocols 5 & 6, VGD040; 9-
cyclohexylmethyl-1-(p-toluenesulfonyl)-3-methylene-1,5,9-triazacyclododecane, and CO2 as a method of euthanasia per DVR SOP.
Redacted by agreement addressed all issues from 20 May, 2020 meeting. The ASP was presented for
Designated Review and approval was given on 30 June, 2020.
Three year renewal
June 2020 <u>Title: Small Molecule TSHR Antagonists in a Mouse Model of Autoimmune Graves' Disease By: Redacted by</u>
Redacted by agreement THREE YEAR RENEWAL)

Comments: Redacted by agreement addressed all issues from 15 April, 2020 meeting. The ASP was presented for Designated Review and approval was given on 12 May, 2020. Final Approval letter sent 06/26/2020.

Initial Submission
June 2020

Tabled Amendment Not Yet Re-Submitted

<u>Deactivation of Animal Study Protocol</u> <u>June 2020</u>

NIDDK IACUC Meeting Minutes 15 July 2020

I.	Constance T. Noguchi, Ph.D. NIDDK, Chair called the NIDDK IACUC to order at 1:30 P.M. Members attended via WebEx.
	Members in attendance:
	 ✓ Present ✓ Present ✓ Present ✓ Constance T. Noguchi, Ph.D., Chair, NIDDK, Senior Investigator, Molecular Medicine Branch ✓ Mark B. St. Claire, D.V.M., NIDDK, Animal Program Director
	✓ Present Redacted by agreement ✓ Present
	✓ Present
	✓ Present
	✓ Present □ Present
	Other attendees:
	✓ Present
	☐ Present ✓ Present
	✓ Present ✓ Present
	Minutes from the 17 June 2020 NIDDK IACUC meeting were distributed. The minutes were unanimously approved.
	Addendums from June 2020 NIDDK IACUC meeting were distributed. The addendums were unanimously approved.
II.	NIDDK Animal Study Proposal Amendment(s)/Annual Review(s)
	Title: Understanding the Pathogenesis of Nonalcoholic Fatty Liver Disease (NAFLD) By: Redacted by Amendment #6
	Comments: A fully convened IACUC reviewed the above protocol.
	Decision: Following convened deliberation the committee unanimously agreed to approve the amendment.
	Title: Nuclear Receptors and Mammalian Development By: Redacted by agreement Amendment #3
	Comments: A fully convened IACUC reviewed the above protocol.
	Decision: Following convened deliberation the committee unanimously agreed to approve the amendment.
	(b)(5)

and Three-Y	ear Renewal(s)	<u>Review</u>	
and Three-Y	ear Renewal(s)	Review	
ion the committeess once the Pr	ee unanimously incipal Investiga	agreed to send ator responds to	the protoco o questions a
	ion the committeess once the Pr	ion the committee unanimously cess once the Principal Investiga	ion the committee unanimously agreed to sendeess once the Principal Investigator responds to

Decision: Following convened deliberation the committee unanimously agreed to send the protocol back to the Principal Investigator for revision and then to come before Full Committee Review (FCR) once the Principal Investigator responds to questions and comments.

IV. Old Business:

T 7	TA. T	ъ.	
V.	New	Business	٠
٧.	11011	Dusincss	٠

Updated ARAC guidelines are as follows: As of 07/06/2020

Administrative: None

Animal Care and Use Procedures:

Investigator-Managed, Small-Scale Zebrafish Facilities, 06/24/2020 NEW

Animal Care and Use Committee:

Changes to Animal Study Proposals, 06/24/2020 REVISED

Review and Approval of Animal Study Proposals and Significant Changes, 06/24/2020 REVISED

Facility Management: None

The ASPs to be reviewed for renewal at the August meeting are the following.

None

Next ACUC meeting is scheduled for <u>Wednesday 19 August 2020</u> in Redacted by agreement on second floor at 1:30 pm or via WebEx.

The ASPs to be reviewed for renewal at the September meeting are the following.

Redacted by agreement		

Next ACUC meeting is scheduled for <u>Wednesday 16 September 2020</u> in Redacted by agreement on second floor at 1:30 pm or via WebEx.

There were no minority opinions expressed and the meeting adjourned at 2:30 pm.

Amendment/Annual Reviews NIDDK July-August, 2020

Finalized Amendments & Annual ASPs
<u>Administratively</u>
July 2020
Title: Central Nervous System G Protein Signaling in Metabolic Regulation By: Redacted by agreement Amendment #7
Comments: Amendment #7 modifies the above protocol by removing Redacted by agreement
Redacted by agreement
Title: Mouse Models for Erythropoietin Signaling By: Redacted by agreement Amendment #5
Comments: Amendment #5 modifies the above protocol by adding Redacted by agreement
Title: Protective Activity of Erythropoietin/Erythropoietin Receptor in Progenitor Cells By: Redacted by agreement Amendment #6
Comments: Amendment #6 modifies the above protocol by adding Redacted by agreement
Redacted by agreement
Title: Mouse Models for Erythropoietin Signaling By: Redacted by agreement Amendment #7
Comments: Amendment #7 modifies the above protocol by adding Redacted by agreement
Title: Analysis of G Protein-coupled Receptor Mutant Mice By: Redacted by agreement Amendment #21 Comments: Amendment #21 modifies the above protocol by adding Redacted by agreement
Title: <i>Mice Transgenic in Genes Expressed in the Gonad</i> By: Redacted by agreement Amendment #16
Comments: Amendment #16 modifies the above protocol by adding Redacted by agreement
Title: Transgenesis for Investigations of Germ Cell Development and Fertilization By: Redacted by agreement Amendment # 8
Comments: Amendment #8 modifies the above protocol by adding Redacted by agreement
Title: Gnas Gene Regulation and Physiological Roles of G Proteins By: Redacted by agreement Amendment #3
Comments: Amendment #3 modifies the above protocol by adding Redacted by agreement
Title: Central Nervous System G Protein Signaling in Metabolic Regulation By: Redacted by agreement Amendment #8
Comments: Amendment #8 modifies the above protocol by adding Redacted by agreement
August 2020 Title: Mouse Models of Disordered Sphingolipid Metabolism: Characterization and Therapy By: Redacted by agreement Amendment #6 Comments: Amendment #6 modifies the above protocol by removing Redacted by agreement
and adding Redacted by agreement

Title: Mouse Models of Disordered Sphingolipid Metabolism: Characterization and Therapy By Redacted by Redacted by agreement Amendment #7
Comments: Amendment #7 modifies the above protocol by removing Redacted by agreement Redacted by agreement
Title: Studies of Adenosine Receptors (A ₁ and A ₃) and Purinergic Receptors (P2Y ₆ and P2Y ₁₄) mutant mice By: Redacted by agreement Amendment #3 Comments: Amendment #3 modifies the above protocol by adding Redacted by agreement
Title: Gnas Gene Regulation and Physiological Roles of G Proteins By: Redacted by agreement Amendment #4 Comments: Amendment #4 modifies the above protocol by removing Redacted by agreement Redacted by agreement And adding Redacted by agreement
Title: Central Nervous System G Protein Signaling in Metabolic Regulation By: Redacted by agreement Amendment #9 Comments: Amendment #9 modifies the above protocol by removing Redacted by agreement and adding Redacted by agreement
Title: Unraveling Functional Circuits Modulating Food Intake By: Redacted by agreement Amendment #8 Comments: Amendment #8 modifies the above protocol by adding Redacted by agreement
July 2020 Title: Treatment of Sepsis and Sepsis-induced Acute Kidney Injury By: Redacted by agreement Amendment #11 Comments: Amendment #11 modifies the above protocol by adding Redacted by agreement Redacted by agreement 2 mouse strains from Redacted by agreement (NIDDK) Lad1ko/+;Pkd1cko/+;Cre+ and Lad1ko/+;Pkd1cko/+;Cre
Title: Gnas Gene Regulation and Physiological Roles of G Proteins By: Redacted by agreement Amendment #2 Comments: Amendment #2 modifies the above protocol by removing Redacted by agreement Redacted by agreement mouse strain Nu-TRAP from Redacted by agreement and 320 mice to year 2 & 3 each for a total of 640 (Column C), procedure Cell lineage tracing.
Title: Mouse Models for Erythropoietin Signaling By: Redacted by agreement Amendment #6 Comments: Amendment #6 modifies the above protocol by adding mouse strain B6.129S4- Gt(ROSA) 26Sortm1Sor/J (Redacted by agreement) #003474).
Title: Nuclear Receptors and Mammalian Development By: Redacted by agreement Amendment #4 Comments: Amendment #4 modifies the above protocol by adding mouse strains Tyrosinase-CreErT2 from Redacted by (NEI).

Title: Role of Cell Cycle Regulators in Diabetes and Obesity By Redacted by agreement [Redacted] Amendment #7
Comments: Amendment #7 modifies the above protocol by adding animal holding location Redacted by agreement
August 2020 Title: NIDDK Rodent Holding and Breeding Protocol By: Amendment #9 Comments: Amendment #9 modifies the above protocol by adding mouse strains; HAS-P2Y6 ko, A1 F/F, WB-P2Y6 ko from K083-LBC-17 and 30 per strain for each year for a total of 270 (Column C).
Title: Analysis of G Protein-coupled Receptor Mutant Mice By: Amendment #23 Comments: Amendment #23 modifies the above protocol by adding mouse strain Brs3-loxTB from Redacted by (NIDDK) and 4 mice to year 2 (Column C).
Title: Analysis of G Protein-coupled Receptor Mutant Mice By: Redacted by agreement Amendment #24 Comments: Amendment #24 modifies the above protocol by adding mouse strain Avpr1b-cre/cre from Redacted by agreement (NIMH) and 4 mice to year 2 (Column C).
Title: The Role of the PCBP family of Iron Chaperones in Mice By Redacted by Amendment #1 Comments: Amendment #1 modifies the above protocol by adding mouse strains C57BL6-Rfr1 fl/fl & Stab2-Cre from Redacted by agreement and 76 mice for each year for a total of 228 (Column C).
Approved at ACUC Meeting July 2020
Title: Nuclear Receptors and Mammalian Development By: Redacted by agreement Amendment #3 Comments: Amendment #3 modifies the above protocol by adding procedure "Fasting Procedure" for 12-16 hours (overnight).
Title: Understanding the Pathogenesis of Nonalcoholic Fatty Liver Disease (NAFLD) By: Redacted by agreement Amendment #6 Comments: Amendment #6 modifies the above protocol by adding Redacted by agreement 176 mice to year 3 (Column C) and procedures Experiment 5 & 6 in Aim 5.
Expedited Review July 2020 Title: Role of Cell Cycle Regulators in Diabetes and Obesity By: Redacted by agreement Amendment #6 Comments: Amendment #6 modifies the above protocol by adding Redacted by agreement 6 mouse strains [Cart-IRES2-Cre-D (JAX: 028533); R26floxstop-TeNT (MGI:3839913); Fos ^{2A-iCreER} (TRAP2) (JAX: 030323): Ai75D (JAX: 025106): Ai96(RCL-GCaMP6s) (C57BL/6J) (JAX: 028866): Gcg ^{iCre} (JAX:

030663)], animal procedure location(s) Redacted by agreement (surgeries) Nodose ganglion AAV injections: AAV9 CBA.FLEX-TetTox (RD-13-IV-08 amend 200812, ABSL=1), and 5 chemicals [4-Hydroxytamoxifen, 2-deoxy-D-glucose, Phlorizin, Retrobeads, Fast Green dye].

The ASP was presented to the Full Committee on 30 June, 2020 via email and was unanimously approved for Designated Review without a fully convened committee review requested. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 16 July, 2020.

Title: Regulation of Immune Responses to Viral Infection By: Redacted by agreement
17 Amendment #17

Comments: Amendment #17 modifies the above protocol by adding 100 mice to year 3 (Column C) and procedure *Aim 3, Experiment 7b*; sub-therapeutic dose of low-dose penicillin.

The ASP was presented to the Full Committee on 01 July, 2020 via email and was unanimously approved for Designated Review without a fully convened committee review requested. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 10 July, 2020.

Title: Regulation of Immune Responses to Viral Infection By: Redacted by agreement 17 Amendment #18

Comments: Amendment #18 modifies the above protocol by adding Redacted by procedure Milking mice.

The ASP was presented to the Full Committee on 22 July, 2020 via email and was unanimously approved for Designated Review without a fully convened committee review requested. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 29 July, 2020.

Title: Development of Mouse Model for the Trinucleotide Repeat Expansion Disorders By Redacted by agreement

Amendment #6

August 2020

Comments: Amendment #6 modifies the above protocol by removing Inbal Gazy, adding mouse strain FancJ KO (C57BL/6NJ-*Brip1*^{em1J}/Mmjax) from JAX and procedure *Fresh Stool Collection*.

The ASP was presented to the Full Committee on 27 July, 2020 via email and was unanimously approved for Designated Review without a fully convened committee review requested. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 11 August, 2020.

Title: Mice Transgenic in Genes Expressed in the Gonad By: Redacted by agreement
Amendment #17

Comments: Amendment #17 modifies the above protocol by adding PFI3, Chicago blue B dye and E2 Progesterone.

The ASP was presented to the Full Committee on 29 July, 2020 via email and was unanimously approved for Designated Review without a fully convened committee review requested. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 18 August, 2020.

Title: Protective Activity of Ervthropoietin/Erythropoietin Receptor in Progenitor Cells By: Redacted by agreement	nt
Redacted by agreement Amendment #7	_
Comments: Amendment #7 modifies the above protocol by adding Redacted by agreement	
animal holding location Redacted by procedure location by 24 mice to years 2 & 3 for a total of 48	
(Column C), additional 0.5-5% isoflurane dosage and procedure <i>Ultrasound</i> .	
The ASP was presented to the Full Committee on 31 July, 2020 via email and was unanimously approved for Designated Review without a fully convened committee review requested. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 11 August, 2020.	
Title: Role of Cell Cycle Regulators in Diabetes and Obesity By: Redacted by agreement	
Redacted Amendment #8	

Comments: Amendment #8 modifies the above protocol by adding 60 mice to year 3 (Column D) for surgical intercranial injection of AAV.

The ASP was presented to the Full Committee on 11 August, 2020 via email and was unanimously approved for Designated Review without a fully convened committee review requested. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 19 August, 2020.

Title: Analysis of G Protein-coupled Receptor Mutant Mice By	Redacted by agreement:
Amendment #22	

Comments: Amendment #22 modifies the above protocol by adding procedures for treatment of mice with V1b vasopressin receptor (V1bR) and bombesin 3 receptor (BB3R) agonists {d[Leu4,Lys8]-VP & MK5046} and 32 mice to year 3 (Column C).

The ASP was presented to the Full Committee on 12 August, 2020 via email and was unanimously approved for Designated Review without a fully convened committee review requested. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 25 August, 2020.

]	Title: Mouse Models of Disordered Sp	phingolipid Metabolism: Characterization and Therapy By: Redacted by
F	Redacted by agreement	Amendment #8
,	7	1,1 1, 11, 11, 11, 200, 12

Comments: Amendment #8 modifies the above protocol by adding mouse strain Hexa269/Neu3, modifying the study objectives to include newly developed base editors for point mutations *in vivo*, "Intracerebroventricular AAV9 injection of neonatal mice for base editing" procedure, transferring 90 mice from Column C to Column D, hypothermia anesthesia, AAV9 PRD# 8019 and RD-20-VIII-04 (ABSL-1).

The ASP was presented to the Full Committee on 17 August, 2020 via email and was unanimously approved for Designated Review without a fully convened committee review requested. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 25 August, 2020.

Title: Effect of Environment, Nutrients and Pharmacologic Agents on Mouse Energy Homeostasis and
Body Temperature By Redacted by agreement Amendment #1
Comments: Amendment #1 modifies the above protocol by adding 2 Aldj1a1 inhibitor drugs
(NCGC00386123, NCATS novel compound), 48 mice per year totaling 144 (Column C) and 2
procedures (Part 35. Effect of novel ALDH1A1 inhibitors on energy and glucose homeostasis. & Part
36. Single housing of male and female mice.)
The ASP was presented to the Full Committee on 19 August, 2020 via email and was unanimously approved for Designated Review without a fully convened committee review requested. The ASP was presented for Designated Review after comments from the ACUC committee were addressed and approval was given on 28 August, 2020.
Annual Reviews Title: Training Protocol for NIDDK Investigators By Redacted by agreement
Title: Role of Cell Cycle Regulators in Diabetes and Obesity By: Redacted by agreement
Title: Mice Transgenic in Genes Expressed in the Gonad By: Redacted by agreement
Title: Regulation of the Development of the Small Intestine and Study of Neuroendocrine Tumorigenesis By Redacted by Redacted by agreement
Title: Central Nervous System G Protein Signaling in Metabolic Regulation By: I
Finalized ASPs & Three Year Renewals
Designated Review
July 2020
Title: Potential Antineoplastic Effects of Small Molecule TSHR Ligands in a Mouse model of Thyroid Cancer By: Redacted by agreement Amendment #1
Comments: Amendment #1 modifies the above protocol by adding Redacted by , blood draws for
evaluating cancer biomarkers, use of suture for wound closure, use of a BSC for injection of cells and
tumor grafts, CO2 as a method of euthanasia and updated the Redac facility manager to Redacted by agreement
Redacted by agreement addressed all issues from 15 July, 2020 meeting. The ASP was presented for
Designated Review and approval was given on 28 July, 2020.
Three year renewal
<u>July 2020</u>
Title: Fat soluble Vitamins Supplementation to Prevent Non-Alcoholic Fatty Liver (NAFLD) and/or
Nonalcoholic Steatohepatitis (NASH) By: Redacted by agreement (THREE YEAR
RENEWAL)
Comments: Redacted by agreement addressed all issues from 20 May, 2020 meeting. The ASP was presented
for Designated Review and approval was given on 14 June, 2020.
Final Approval letter sent 07/14/2020

Title: Mechanisms of alpha-Synuclein Intercellular Transmission By: Redacted by agreement
Redacte (THREE YEAR RENEWAL)
Comments: Redacted by addressed all issues from 20 May, 2020 meeting. The ASP was presented for
Designated Review and approval was given on 09 July, 2020.
Final Approval letter sent 08/14/2020.
Title: Effect of Environment, Nutrients and Pharmacologic Agents on Mouse Energy Homeostasis and
Body Temperature By: Redacted by agreement (THREE YEAR RENEWAL)
Comments: Redacted by agreement addressed all issues from 17 June, 2020 meeting. The ASP was presented
for Designated Review and approval was given on 28 July, 2020.
Final Approval letter sent 08/19/2020.
Initial Submission
July 2020
<u> </u>

Tabled Amendment Not Yet Re-Submitted

<u>Deactivation of Animal Study Protocol</u> <u>July 2020</u>