



INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETING MINUTES
August 20, 2020

Present:

[REDACTED]

Excused:

[REDACTED]

Absent:

[REDACTED]

The Chair of the IACUC opened the meeting at 3:02 p.m.

1. REVIEW OF ANIMAL CARE AND USE PROGRAM

The IACUC used the checklist provided by the OLAW website to evaluate the Health Center's animal care and use program.

The IACUC uses a 7% or less reporting rate to OLAW as indicative of effective training. To date this year, we have had 1 report to OLAW, given that we have 242 active protocols, this is a reporting rate of 0.4%; therefore, the IACUC considered that our training is effective.

The disaster plan was updated to include information regarding the IACUC which was reviewed by the Committee.

2. REVIEW OF ANIMAL FACILITIES

The IACUC used the standardized review form provided by the OLAW website to review the Health Center's evaluation of the animal facilities. There were no significant deficiencies in the review of animal facilities. There were some minor deficiencies that have been corrected or on schedule to be corrected by the targeted completion date.

There was some question with regard to environmental enrichment for fish. The Committee determined that this issue will be on the September agenda to give members the opportunity to review what might be appropriate for this issue.

There was discussion of the use of BloRaft for performing the inspections and the consensus was that it went well. There were some issues of spotty WiFi access. To that end, the IO has requested information as to where WiFi signals are inadequate in order to get this addressed by the institution.

3. REVIEW OF ANIMAL STUDY AREAS (INVESTIGATOR LABORATORIES)

The IACUC used the standardized review form provided by the OLAW website to review the Health Center's evaluation of the animal study areas. It was noted that there were no significant deficiencies during this review cycle. There were some minor deficiencies that have been corrected or on schedule to be corrected by the targeted completion date.

4. IACUC POLICY RENEWALS

The following IACUC policies were approved by the IACUC, 16-0-0:

- Animal Holding in PI Laboratories
- Assigning Reviewers to New Protocols
- Counting Animals used in Approved IACUC Protocols
- Prolonged Physical Restraint
- R/O Bleeding
- Tg/GT Animals
- Using DMR for New Protocol Submissions

5. UPDATES DISCUSSED DURING MEETING NOT ON AGENDA

The AV updated the Committee on the situation regarding controlled substances at UConn Health. Due to COVID-19, inspections for controlled substances licenses have been postponed by State and Federal Agencies. The AV has been given the approval to continue the dispensing of controlled substances to researchers until the situation resolves; this most likely will not be for 3-4 months.

6. SEMI-ANNUAL REPORT TO THE IO

The report to the institutional official (IO) will be written by the IACUC Administrator and will be sent to all IACUC members for his/her signature and then sent to the IO.

Meeting adjourned at 3:40 pm.

APPROVED

Joseph Lorenzo, MD, UCH IACUC Chair

9/24/20
Date



INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETING MINUTES
August 27, 2020

Present: [REDACTED]

Excused: [REDACTED]

Absent: [REDACTED]

The Chair of the IACUC opened the meeting at 3:03 p.m. in the [REDACTED].

1. REVIEW OF JULY 30TH MEETING MINUTES

M/S/P to approve the July 30th meeting minutes by a vote of 18-0-0.

2. REVIEW OF ANIMAL CARE APPLICATIONS

2A. DEFERRED / DISAPPROVED APPLICATIONS REVIEWED BY FCR

[REDACTED] Understanding the Mechanisms Underlying Psychiatric Diseases: the Roles of Cramp2 and RFWD2
MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR
* It appears that members of other laboratories will be involved in the animal handling and training of procedures; therefore, those individuals must be listed on the modification document.
* Justification for the 0.45mA foot shock is lacking as this is considered a punishment paradigm and would be considered painful. Performing 100 foot shocks in an hour needs to be justified. In the active avoidance protocol, the foot shock is only 0.3mA and the exposure limited. In this protocol, 0.15mA should be sufficient for the purposes of this study and should be considered.
* More detailed description of the 3 stressors in the SCVS procedure is needed.
* There is a tail suspension test in the approved protocol that was a hang for 6 minutes that, in the modification, appears to be increased to 60 minutes? Is this an error? If not, it requires justification and would be considered a pain category E.
* Motivation assessment using operant conditioning with 85dB and 90dB tones are used. Are personnel exposed to these tones? It is stated that 4-5 sessions/day, 50 trials/session – how long is each session? A hearing risk assessment may be required based on the answer to these questions.
* A revised version of this modification is required to be submitted to the IACUC.

2B. NEW APPLICATIONS REVIEWED BY FCR

The role of BMP2 in postnatal growth of mandibular condyle

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * A grant number, where, requested is required.
- * Procedural training records are required.
- * The lay summary is too technical and needs to be rewritten. In addition, acronyms must be defined at first use.
- * The scientific summary actually reads more like a lay summary. More information must be provided.
- * Sequence of experimental procedures is unclear with regard to when tamoxifen is being given to the animals.
- * All WT strains being used in the study must be identified.
- * The discussion of the 3Rs must identify the actual painful procedure at the beginning of the narrative.
- * Procedure descriptions require a rationale as to why certain drugs are being given to the animals.
- * Room location list is incomplete; animals given tamoxifen will need to be housed in Chemical Isolation.
- * Chemical safety protocol needs to be updated.
- * It is unclear exactly which recombinant lines are being used; clarifications required.

Pathology and Treatment of Kidney Disease

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * Procedural training records are required.
- * The lay summary needs to provide more information as to what is being done in the protocol and what the goal(s) of the research is.
- * Sequence of experimental procedures requires more information – will any one animal be involved in more than 1 of the 10 experimental designs listed?
- * Animal numbers are unclear and seem to be less than what will be required if multiple strains of mice are to be used.
- * Discussion of the 3Rs needs to be stated for each painful procedure being used.
- * It appears, from the AV consultation document attached to the record, that the drug induced kidney damage models were discussed with the AV. PI should meet with the AV regarding these procedures in order to obtain appropriate information (e.g., endpoints).
- * PI does not select appropriate named procedures (almost all procedures are listed as administration of experimental drugs) – these should be corrected.
- * It is unclear, generally, for how long drugs are to be administered.
- * Monitoring parameters for most procedures require clarifications.
- * Multiple methods of blood collection have been placed into one method of tail bleeding. They need to be separated.
- * It is unclear, for many procedures, how animals will be monitored after the performance of the procedures.
- * Information on surgical procedures are not placed into correct fields. The PI needs to follow the instructions and put only information requested in the instructions into each field. Not following this requirement renders the protocol difficult to read.
- * Unclear what biological hazards are being used as the IACUC protocol does not seem to match the submitted IBC registration.

Novel Mouse Models of Neurodegenerative Disease

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * Sequence of experimental procedures requires more information.
- * A tissue harvest procedure is required.
- * Breeding procedure should state when animals are retired and describe how they are euthanized.
- * PI states that mice will be monitored daily for breeding activities. This seems excessive and may lead to unintentional non-compliance. IACUC suggests that animals be monitored in a more reasonable frequency.
- * It is unclear if one or two surgeries are being performed. It is suspected it is only one – a perfusion for tissue collection – but the PI needs to clarify.
- * It is unclear what, if any, phenotypic issues the mice may have. The PI needs to consult with the AV and if there is a chance that the mice may have issues (e.g., reduced mobility, etc.), the PI will need to update the minimizing pain and distress section of the protocol.
- * Methods of euthanasia section appears to be incomplete.
- * Some Tg/GT strains require information to be sent to the IACUC describing how the lines were made.

2C. MODIFICATIONS REVIEWED BY FCR

Immune Responses to Microbes

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * Add that mice from whom cecal contents will be collected will not be mice infected with human pathogens. If they are, please consult with the BSO regarding what further information will be required in the modification document.
- * The PI should state if additional mice be needed in order to collect cecal contents.
- * A procedure description is required for the collection of cecal contents.
- * A revised document incorporating these changes must be submitted to the IACUC.

Murine Models of Skeletal Repair

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * The PI met with the AV regarding the desire for toe clipping. The IACUC approved the modification document with the exception of toe clipping 2 digits from the same hind limb.
- * A revised document incorporating these changes must be submitted to the IACUC.

Study the Role of Leukocytes in Inflammatory Diseases

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * The PI needs to mention why the animals come from ABSL-2 and discuss why they believe animals will no longer be infectious. Mention any testing that will perform to demonstrate mice are no longer infectious.
- * Procedure for disinfection of flexivent is required.
- * An evaluation of the procedure with the flexivent is required (BSO and CSS to perform).
- * It is unclear if animals will be reperfused for 24 hours and then euthanized or if the animals will recover from the surgery (e.g., incision closed, etc.) and subsequently euthanized.
- * PI is adding recombinant strains; they will need to complete a recombinant rodent information table.

Characterization of *Treponema pallidum* Rare Outer Membrane Proteins

APPROVED

Soft-Actuated Bionic Regenerative Engineering
APPROVED

2D. ANNUAL REVIEWS BY FCR

Models of Autoimmunity
APPROVED

Bionic Piezoelectric Cartilage Graft/Hydrogel Characterization in the Presence of Cartilage Defects

Monitoring the Tissue/Organ Distribution and In Vivo Persistence of Human ES-MSCs
APPROVED

Osteoblast Lineage Plasticity in Zebrafish
APPROVED

Regulation of Bone Remodeling: Role of Signaling Proteins
APPROVED

miR-433 in Skeletal Cells
APPROVED

Host Immune Response to Mosquito-Transmitted Viruses
APPROVED

Evaluation of Bone Regeneration using a Rat Tibial and Femoral Defect Model and Mouse Calvarial Defect Model
APPROVED

How Pro-inflammatory Cytokines Block T-cell Death *in vivo*
APPROVED

Cannabinoid and Neurotrophin Modulation of Synaptic Transmission
APPROVED

Unraveling Mechanisms of Developmental Enhancer Evolution
APPROVED

2E. DOCUMENTATION OF ADMIN / DMR / VVC REVIEWED PROTOCOLS AND MODIFICATIONS

The Study of Host-Gut Microbiome Interactions
DMR REVIEW; =MODIFICATIONS REQUIRED

- * Study initiation question should be “no”, not “yes”.
- * All protocol associates require training documentation to be uploaded.
- * This protocol might have to be broken down into separate protocols; there is no clear “connection” between all the activities described in the protocol.
- * Sequence of experimental procedures is not correct and requires changes.
- * Protocol should clearly state at what score EAE animals will be euthanized.
- * Forced swim test requires more information regarding how the test will be performed.
- * Some of the behavioral tests need to state what animals are expected to do or the rationale for performing the test.
- * Room location list is incomplete.
- * Protocol needs to identify the chemical hazards being used and a chemical safety protocol will be required.

- * Biosafety protocol requires updating.
- * Phenotypic pain/distress on Tg/GT lines needs to be re-written so that it can be understood.

Expression of FGFs in the Mandibular Condyles of Mice
DMR REVIEW; APPROVED

HRPT2 in Fibro-osseous Jaw Lesions
DMR REVIEW; MODIFICATIONS REQUIRED

- * Department providing funding must be specified.
- * Sequence of experimental procedures should be simplified.
- * Justification of animal numbers is incomplete.
- * Genotyping of animals past 21 days requires an anesthetic.
- * Section 9 needs to state that chemical hazards are being used.

Development of Objective Electrophysiological Tests for Tinnitus Based on Long-Lasting After-Discharges in the Inferior Colliculus

DMR REVIEW; MODIFICATIONS REQUIRED

- * Unclear if agonists are used singly or in a compound; please clarify.
- * Indicate why experimental compounds are being used.
- * Tatto can be stated in the identification methods.
- * Tympanectomy is in the drop down menu; please select it.
- * Unclear if tympanectomy is performed on one or both ears.

Function and Regulation of the BK Channel

DMR REVIEW; MODIFICATIONS REQUIRED

- * Lay summary needs to be simplified.
- * Rationale for animal number is unclear.
- * Unclear if animals are being bred.
- * A description is required for the tissue harvest procedure.
- * A controlled substance license is required.
- * PI had stated in emails to IACUC office of the requirement for decapitation without anesthesia; that needs to be checked off in the protocol.

Developing Immunotherapy against Infectious Diseases and Cancer

DMR REVIEW; MODIFICATIONS REQUIRED

- * This is not a GLP study, so please remove that response and select an appropriate response.
- * No knock down experiments for PD-L1 are mentioned in your scientific summary. Please clarify.
- * You cannot ask reviewers to read your grant to find out how you will perform experiments – you need to explain everything in your protocol.
- * Define NP and scFV vaccine vectors.
- * There needs to be a procedure for the HBV model generation.
- * Room locations are incorrect.
- * Species specific enrichment must be selected.
- * The "AAV-HBV" model of HBV persistence, if it involves introducing AAV with HBV or HBV sequences into mice, constitutes a recombinant experiment that is not covered in IBC14-040. PI has confirmed it is recombinant but it is not performed here.

Neural Basis of Active Avoidance Behavior

DMR REVIEW; MODIFICATIONS REQUIRED

- * Lay summary requires corrections.
- * Sequence of experimental procedures needs corrections.
- * Rationale for requested animal numbers requires more information.
- * Discussion of the 3Rs is incomplete.
- * More information is required in the avoidance behavioral test.
- * Dosage of isoflurane needs to be corrected.

- * Isoflurane scavenging needs to be evaluated.
- * Recombinant and safety issues need to be resolved.

The Role of Cellular Senescence in TMJ Degeneration

DMR REVIEW; MODIFICATIONS REQUIRED

- * Training documentation is required.
- * Lay summary needs to be re-written in less scientific terms.
- * Requested WT strains to be used are required.
- * Narrative for the discussion of the 3Rs needs to be corrected.
- * Room locations needs to include CCM Chemical Isolation.
- * Recombinant use section requires more information.

Calcium Signaling Mechanisms Underlying Stroke

DMR REVIEW; MODIFICATIONS REQUIRED

- * Training records are required for all research associates.
- * Sequence of experimental procedures is confusing and requires clarifications.
- * WT strains should be noted where requested.
- * Literature search is not required and should be removed.
- * Discussion of the 3Rs is insufficient and requires more information.
- * All "N/A" comments with regard to monitoring procedures needs to be removed.
- * PTZ is a hazard and needs to be addressed as directed.
- * Protocol does have MMSS, so this needs to be indicated.
- * Many of the surgical information has been placed into the wrong sections and require corrections.
- * Buprenorphine must be given twice per day for 2 days after surgery.
- * Instruments must be autoclaved prior to first use. A maximum of 10 animals can be used per autoclaved set of instruments.
- * Room locations are incomplete.
- * PI will require licenses for controlled substances.
- * Chemical safety protocol will require updating.

Regulation of *Borrelia burgdorferi* Genes *in vivo*

DMR REVIEW; APPROVED

Host Immune Response to Mosquito-Transmitted Viruses

DMR REVIEW; MODIFICATIONS REQUIRED

- * Blood collection must be limited to 0.11-0.14 ml per day.
- * As described, it appears this is a study that will be conducted exclusively in adult animals. A range of ages should be specified.
- * Medipoint lancets for adult animals for blood collection should be considered; please consult with the Attending Veterinarian.
- * Step 3 refers to adult parental mice – please confirm.
- * If a phenomenon similar to FcRn deficiency is expected, blood collection and 2d of age could be considered. FcRn^{-/-} pups fostered on WT mothers have only 10% chance of the starting dose remaining at 4 days after birth.
- * A revised document incorporating these changes needs to be submitted to the IACUC office.

Bionic Piezoelectric Cartilage Graft/Hydrogel Characterization in the Presence of Cartilage Defects

ADMINISTRATIVE REVIEW; MODIFICATIONS REQUIRED

- * TN requires medical clearance from EHS.

MicroRNA Regulated Immunology and Hematopoiesis

ADMINISTRATIVE REVIEW; APPROVED

Aging and Determinants of Bladder Volume Sensitivity
DMR REVIEW; APPROVED

Investigation of BACE1 Physiological Function and AD Pathology using BACE1
Conditional Knockout Mice
DMR REVIEW; APPROVED

The Role of the Microbiome in Asthma
DMR REVIEW; MODIFICATIONS REQUIRED

* Section 4- mention why the animals come from ABSL-2. Discuss why you believe animals will no longer be infectious. Mention any testing you will perform to demonstrate mice are no longer infectious.

* Section 4- Procedure for disinfection of the flexivent needs to be added. A Walk-thru of the procedure with flexivent required with BSO and CSS.

* Section 4- Who is going to be performing this procedure? What experience do they have? If none, who is going to be training on this procedure?

Skeletal Stem Cells
DMR REVIEW; APPROVED

Hematopoietic Stem Cells - A Study of their Developmental Regulation, Self-Renewal, and Differentiation
ADMINISTRATIVE REVIEW; APPROVED

Human induced Pluripotent Stem Cells (hiPSC) - Generation of Immune Humanized Mice
ADMINISTRATIVE REVIEW; APPROVED

Effects of methyl donor deficiency on intestinal tumorigenesis
ADMINISTRATIVE REVIEW; APPROVED

Calcium Signaling Mechanisms in Cardiac Fibrosis
ADMINISTRATIVE REVIEW; APPROVED

Microbiome Interactions with the Immune System
ADMINISTRATIVE REVIEW; APPROVED

Mesenchymal Progenitor Cell Differentiation
ADMINISTRATIVE REVIEW; APPROVED

How Proinflammatory Cytokines Block T-cell Death *in vivo*
DMR REVIEW; APPROVED

Rabbit ACL Reconstruction Model with Synthetic ACL Substitutes
ADMINISTRATIVE REVIEW; APPROVED

Drinking-in-the-Dark (DID)
ADMINISTRATIVE REVIEW; APPROVED

Hematopoietic Stem Cells - A Study of their Developmental Regulation, Self-Renewal, and Differentiation
ADMINISTRATIVE REVIEW; APPROVED

Human induced Pluripotent Stem Cells (hiPSC) - Generation of Immune Humanized Mice
ADMINISTRATIVE REVIEW; APPROVED

Investigation of BACE1 Physiological Function and AD Pathology using BACE1
Conditional Knockout Mice
ADMINISTRATIVE REVIEW; APPROVED

Skeletal Stem Cells
ADMINISTRATIVE REVIEW; APPROVED

Mouse Rotator Cuff Defect Model
ADMINISTRATIVE REVIEW; APPROVED

3. MISCELLANEOUS/CONTINUING DISCUSSIONS

- A. PAWS reviews – none
- B. Expired training and OHS enrollments
All individuals with expired training and/or OHS enrollment will be removed from the protocols effective 9/1/20. Any PI with expired training and/or OHS enrollment will have all protocols withdrawn effective 9/1/20.
- C. Protocol withdrawals due to no annual review submitted – none

Meeting adjourned at 4:03 p.m.

APPROVED: _____
Joseph Lorenzo, M.D., UCH IACUC Chair

9/24/20
Date



INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETING MINUTES
September 24, 2020

Present:



Excused:



Absent:

The Chair of the IACUC opened the meeting at 3:03 p.m. via conference call.

1. REVIEW OF AUGUST 20TH AND 27TH MEETING MINUTES

M/S/P to approve the August 20th meeting minutes by a vote of 18-0-0.
M/S/P to approve the August 27th meeting minutes by a vote of 18-0-0.

2. REVIEW OF ANIMAL CARE APPLICATIONS

2A. DEFERRED / DISAPPROVED APPLICATIONS REVIEWED BY FCR

None

2B. NEW APPLICATIONS REVIEWED BY FCR



Sensory Pathways for Stimulus Detection during Behavior

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * Lay summary needs to be simplified and requires an overview of the experimental design.
- * Water restriction experiment is unclear as to when water is going to be provided and how it will be ensured that animals are drinking at least 1.5ml per day.
- * It is not clear what an eye condition test is for monitoring water restriction.
- * PI needs to state if researchers are exposed to the high level sound being used in behavioral testing.
- * Clarifications are required on anesthesia dosage and maintenance.
- * Species specific enrichment must be used.
- * r/sNA sections needs to be clarified regarding the use of AAV.

Assessment of Healing of Cutaneous Wounds

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * Unclear as to who will actually be performing procedures on animals.
- * Lay summary requires an overview of the experimental design.
- * Breeding animals must be placed in pain category B.
- * A procedure for changing bandages is required.
- * Elaborate more on the types of dressings/bandages/hydrogels. In the overview a microneedle-mediated drug release is mentioned. How is this done?
- * Immediate post-operative section requires more information.
- * Animals require 2 doses of Buprenorphine after surgery.
- * Room locations are unclear

Near-IR Ratiometric Fluorescence Probes for Assessing Cargo Delivery to Prostate Tumor

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * Lay summary is too scientific and also requires an overview of the experimental design.
- * Sequence of experimental procedures is incomplete and in an incorrect format.
- * Please explain further how you determined that 5 mice per time point was adequate. Was a power analysis performed? The extra mice provided would suggest a 20% death rate. Can you comment on any previous work or publications indicating a death rate?
- * Search for alternatives is incomplete.
- * A procedure is required for the injection of probes.
- * The surgical site - 10 mm above the base of the tail? Its confusing and not accurate. SQ implantation are done usually at Flank Region (rear), and near the neck region. Just indicate that a horizontal incision of 5mm directly over the flank. For closure of the incision, vetbond or single suture knot may be needed, especially if you anticipate a tumor growth. Use absorbent suture material like Vicryl (simple interrupted suture).
- * Isoflurane must be selected as a hazard and all questions answered.
- * An animal biological safety protocol is required

2C. MODIFICATIONS REVIEWED BY FCR

Regulation of Channel Function

APPROVED

In vivo Hemi Limb Defect Model for Hemi Limb Regeneration

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * The IACUC has concerns that the primary surgeon has been deleted and an individual added who, from training records, has not performed any live rabbit surgery.
- * This surgery did not appear to be successful in rats. Because of this and the lack of experience of the new surgeon, the IACUC will allow this procedure in one rabbit only and under the direct supervision of the Attending Veterinarian (AV).
- * The external fixator device must be evaluated by the AV prior to use.
- * One day after surgery is too soon for gait analysis; the limb will not be strong enough and the animal will be in unacceptable pain and the IACUC considers this inhumane. Please discuss the timing of procedures in this modification with the AV prior to sending in a revised document.
- * Expand the sequence of experimental procedures section for the "Study2/Phase II" section. There are 3 groups in that phase and the timing is different because some rabbits are getting the defect and the IGS implant at the same time while others are getting the defect and then waiting 14 days to

get the implant. The way it is written makes it difficult to tell the difference between the groups. Adding distinct sequences for each of the 3 groups would avoid this confusion. Also, in the section it states "168 days" when in other sections, it states 26 weeks which is 182 days. These should be consistent.

* What is the difference between the acute and sub-acute groups? It is unclear.

* Do you require an increase in animals?

* Please provide documentation of x-ray imaging training.

* A new document addressing all of these issues must be submitted to the IACUC. Please use the copy that is sent to you, use a different color for your changes, and please do not use "track changes". If you do, it will returned.

Murine Models of Skeletal Repair

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

* Are human cells used in this construct? Please provide more information about what is in the construct to be used.

2D. ANNUAL REVIEWS BY FCR

Study the Role of Leukocytes in Inflammatory Diseases

APPROVED

Pharmacokinetic and Efficacy Studies of Novel Compounds

APPROVED

Screening Potent Compounds for Alzheimer's Disease Treatment

APPROVED

Function and Signaling Mechanism of Cardiac P2X4-Receptor

APPROVED

Chemopreventative Effects of TP-252 With or Without Naproxen on PIRC Rat Model of FAP

APPROVED

Enhancing Subcutaneous Insulin Delivery

APPROVED

Role of Vascular Networks in Continuous Glucose Monitoring

APPROVED

In vivo Evaluation of Mesh Biocompatibility

APPROVED

Autologous Whole Tissue Cancer Immunotherapy

APPROVED

Effects of Alendronate Treatment on the Rate of Orthodontic Tooth Movement in Osteogenesis Imperfecta

APPROVED

Characterization of Articular Changes in Osteoarthritis after Controlled Release of Adipose Derived Stem Cells

APPROVED

MicroRNA Regulated Immunology and Hematopoiesis

APPROVED

Cellular and Molecular Mechanisms of Renal Fibrosis
APPROVED

Calcium Signaling Mechanisms in Cardiac Fibrosis
APPROVED

Role of Notch in Arthritis
APPROVED

Microgliosis in Globoid Cell Leukodystrophy
APPROVED

2E. DOCUMENTATION OF ADMIN / DMR / VVC REVIEWED PROTOCOLS AND MODIFICATIONS

Identification of Gene Products Involved in Acute Infection and Renal Persistence of *Leptospira* (mice)

DMR REVIEW; MODIFICATIONS REQUIRED

- * Sequence of experimental procedures needs clarifications.
- * Unclear if *Peromyscus* mice are being used in this protocol.
- * Ketamine cocktail needs to be included in drug tables.
- * Ketamine requires controlled substance licenses.
- * Unclear what analgesics are being used in this study.
- * Method of confirmation of death after CO₂ narcosis needs to be stated.

Identification of Gene Products Involved in Acute Infection and Renal Persistence of *Leptospira* (hamsters)

DMR REVIEW; MODIFICATIONS REQUIRED

- * Title states hamsters but species states mice.
- * Bacteria needs to be added to the table describing its use.
- * Unnamed procedure is in the drop down list and should be selected.
- * Not clear if diuretic is being used with this species.
- * Unclear where analgesics are being used.
- * Method of confirmation of death after CO₂ narcosis needs to be stated.
- * Biosafety protocol requires updating.

Identification of Gene Products Involved in Acute Infection and Renal Persistence of *Leptospira* (rats)

DMR REVIEW; MODIFICATIONS REQUIRED

- * Title states rats but species states mice; this needs to be clarified.
- * All information regarding literature search is not required and needs to be removed.
- * Discussion of 3Rs should remove reference to search.
- * Ketamine cocktail needs to be included in drug tables.
- * Unnamed procedure is in the drop down list and should be selected.
- * Ketamine requires controlled substance licenses.
- * Method of confirmation of death after CO₂ narcosis needs to be stated.
- * Biosafety protocol requires updating.

Focused Ultrasound Stimulation for Spinal Cord Injury

DMR REVIEW; MODIFICATIONS REQUIRED

- * Sequence of experimental procedures requires clarifications.
- * Literature search not required – remove.
- * It is unclear why probes cannot be sterilized.
- * Toe pinch must be used to assess level of anesthesia.
- * More information regarding the use of isoflurane is required.

Investigation of Hormone Action, Imprinting, Ossifications, and Skeletal /
Dental Abnormalities in a Mouse Model of Albright Hereditary
Osteodysostrophy

DMR REVIEW; MODIFICATIONS REQUIRED

- * The title needs to be placed into the protocol document.
- * The lay summary requires more information.
- * Sequence of experimental procedures needs to be re-written.
- * Rationale for animal numbers should state what mutations are being used (e.g., knock-outs).
- * Unclear when genotyping is going to be performed.
- * No clear why so many endpoints were stated to be used when no significant manipulations are going to be performed on the animals.
- * Species specific enrichment must be used.
- * An appropriate method of confirmation of death after CO₂ narcosis must be stated.

Development of Canine Tumor PDX Models with or without Canine Immune Cell
DMR REVIEW; MODIFICATIONS REQUIRED

- * Mouse strain should indicate WT strains to be used; if none, state no WT lines are to be used.
- * Your adoptive transfer procedure involves 2 steps (irradiating the mice then injecting them with cells). This can be described in one procedure, but because the steps occur 24 hours apart, it would be best to have 2 separate procedures. (This is how it was done in the protocol that is being renewed.) Keep the first procedure as "Irradiation" and rename "Implantation of cells by Injection" to "Adoptive Transfer - IV".
- * Named procedures are required to be used.
- * Cells to be used in stereotaxic injections need to be described.\
- * Appears that the protocol has references to Jackson Labs SOPs that are not the same as UCH requirements with regard to sutures. This needs to be resolved.

Dopaminergic Modulation of the Developing Cortex

DMR REVIEW; MODIFICATIONS REQUIRED

- * Lay summary is too detailed and experimental aims should be in scientific summary.
- * Sequence of experimental details should not have experimental design information- just what is happening and when.
- * Old protocol had a breeding procedure; it is unclear if one is required in this 3-year renewal.
- * Level of anesthesia should be assessed by toe pinch, not shaking the animal.
- * GMO numbers on RRIT are incorrect; correct numbers have been given to the PI. The table should be corrected and re-attached.

The Effect of Sepsis on Cardiac Function

DMR REVIEW; MODIFICATIONS REQUIRED

- * There are formatting issues that make some sections difficult to read; for instance, paragraphs should be separated so that they do not run together.
- * Scientific summary should be different from the lay summary.
- * Sequence of experimental procedures – it is not clear how the 3 timelines are different.
- * At the start of the 3R narrative, it should be stated what the painful procedure is. In addition, references to searches should be removed as no searches were required nor performed.
- * To remain consistent with what is stated in the overview and sequence of experimental procedures, change the sentence to read: "Echocardiogram will be performed before CLP or sham surgery and either 24, 48, 72 or 96 hours after surgery." In addition, use "approximate" prior to timings to avoid any unintentional non-compliance.

* How is it determined that animals are appropriately anesthetized? Here you should state that you will use a new set of instruments after "x" amount of animals. Your last two sentences do not belong here- they belong in the immediate post operative care section.

[REDACTED] Function and Regulation of the BK Channel
DMR REVIEW; MODIFICATIONS REQUIRED

* Rationale for use of animals and species need to be entered into the document.

[REDACTED] Evaluation of the Role of mPGES-1 in Mouse Tumor Models
DMR REVIEW; APPROVED

[REDACTED] Porphyromonas gingivalis Glycine Lipids Mediate Bone Loss through TLR2
DMR REVIEW; APPROVED

[REDACTED] HRPT2 in Fibro-osseous Jaw Lesions
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] Hormonal Control of Calcium Metabolism: Parathyroid Cell Neoplasia
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] Cyclin D1 PRAD1 in Mammary Neoplasia
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] Effects of Alendronate Treatment on the Rate of Orthodontic Tooth Movement in Osteogenesis Imperfecta
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] *In vivo* BioID using sarcomere BioID
DMR REVIEW; APPROVED

[REDACTED] Thioredoxin-1 Reprogrammed Exosomes Promote Cardiac Repair
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] Murine Models of Skeletal Repair
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] Hematopoietic Stem Cells - A Study of their Developmental Regulation, Self-Renewal, and Differentiation
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] Human induced Pluripotent Stem Cells (hiPSC) - Generation of Immune Humanized Mice
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] Protocol Title: Biodegradable Piezoelectric Wound Dressing
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] Biodegradable Ultrasonic Transducer for Disrupting the Blood-brain Barrier for Drug Delivery
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] Development of a Mouse Model to Study Fertility after Androgen Administration
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED] Pharmacokinetic and Efficacy Studies of Novel Compounds
DMR REVIEW; APPROVED



Role of P2X4R in Ischemic Stroke
ADMINISTRATIVE REVIEW; APPROVED



Effect of Neuroprotective and Neuro-rehabilitatory Agents on Post-stroke Recovery
ADMINISTRATIVE REVIEW; APPROVED



Influence of Aging on Immune Response
ADMINISTRATIVE REVIEW; APPROVED



Influence of Aging on Immune Response
ADMINISTRATIVE REVIEW; APPROVED



Study on the Role of Inflammation and Immunity in Cancer
DMR REVIEW; APPROVED



Soft-Actuated Bionic Regenerative Engineering
ADMINISTRATIVE REVIEW; APPROVED



Calcium Signaling Mechanisms in Cardiac Fibrosis
ADMINISTRATIVE REVIEW; APPROVED



Characterization of Limb Regeneration using a Pseudarthrosis Model
ADMINISTRATIVE REVIEW; APPROVED



Function and Regulation of the BK Channel
DMR REVIEW; APPROVED



COX-2 Regulation of Bone Responses to PTH
ADMINISTRATIVE REVIEW; APPROVED



Immune Response to Tumor Neopeptides
ADMINISTRATIVE REVIEW; APPROVED



The Nervous System as a Regulator of Immune Homeostasis
ADMINISTRATIVE REVIEW; APPROVED



Synergism of Antiproliferative effect of Vitamin D3 and Ibuprofen in Intestinal Tumorigenesis
ADMINISTRATIVE REVIEW; APPROVED



Molecular Mechanisms of Neuronal Development and Axon Regeneration
ADMINISTRATIVE REVIEW; APPROVED



Calcium Signaling Mechanisms in Cardiac Fibrosis
ADMINISTRATIVE REVIEW; APPROVED



In Vivo Determination of the Reduction of Metallosis from Arthroplasty Metallic Implant Degradation Products via Dimercaprol-functionalized Glycosaminoglycan Chelation Therapy.
ADMINISTRATIVE REVIEW; APPROVED



Characterization of Articular Changes in Osteoarthritis after Controlled Release of Adipose Derived Stem Cells
ADMINISTRATIVE REVIEW; APPROVED



Rabbit ACL Reconstruction Model with Synthetic ACL Substitutes
ADMINISTRATIVE REVIEW; APPROVED

The Role of Cd13/APN in Cell Adhesion and Inflammation
ADMINISTRATIVE REVIEW; APPROVED

COX-2 Regulation of Bone Responses to PTH
ADMINISTRATIVE REVIEW; APPROVED

3. MISCELLANEOUS/CONTINUING DISCUSSIONS

- A. PAWS reviews – None
- B. Expired training and OHS enrollments
All individuals with expired training and/or OHS enrollment will be removed from the protocols effective 10/1/20. Any PI with expired training and/or OHS enrollment will have all protocols withdrawn effective 10/1/20.
- C. Protocol withdrawals – no annual review submitted – None
- D. Fish enrichment
The IACUC discussed the use of enrichment in fish. It was determined that the IACUC would strongly recommend group housing as the main enrichment methodology. If structural enrichment is requested by the PI, s/he should consult with the Attending Veterinarian. The IACUC Policy on enrichment will be modified to include this information.
- E. Extended release Buprenorphine
UCH now has the opportunity to buy and use extended-release Buprenorphine. PIs who wish to use it will be required to modify their protocols to describe its use.

Meeting adjourned at 3:55 p.m.

APPROVED: _____
Joseph Lorenzo, M.D., UCH IACUC Chair

10/29/20
Date



INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETING MINUTES
October 29, 2020

Present:



Excused:



Absent:

The Chair of the IACUC opened the meeting at 3:06 p.m. via teleconference.

1. REVIEW OF SEPTEMBER 24TH MEETING MINUTES

M/S/P to approve the September 24th meeting minutes by a vote of 20-0-0.

2. REVIEW OF ANIMAL CARE APPLICATIONS

2A. DEFERRED / DISAPPROVED APPLICATIONS REVIEWED BY FCR

None

2B. NEW APPLICATIONS REVIEWED BY FCR

None

2C. MODIFICATIONS REVIEWED BY FCR



Humanized Mouse Models to Study Vaccines

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

* Chemical safety protocol is required.

* Need to figure out where the animals are going to be housed as the new work requires CT DPH registration. Choices are: 1) work in [REDACTED]; 2) work in [REDACTED] and get that room registered with CT DPH; or 3) work in [REDACTED]. PI will need to consult with the BSO about this issue.

* Pain categories are required for the new mice – how many mice in what pain category?

* A new modification addressing these concerns must be submitted to the IACUC.

Institutional Animal Care and Use Committee
263 FARMINGTON AVENUE, MC 1523
FARMINGTON, CT 06030-1523
PHONE 860.679.3429
FAX 860.679.1005
ooacc@uchc.edu
research.uchc.edu

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Uploaded to Animal Research Laboratory Overview (ARLO) on 04/07/2021

Chemopreventative Effect of Urolithin A and Ellagic Acid on DSS-induced Ulcerative Colitis

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * It is not clear which mice will be receiving tamoxifen nor the timing of the administration of tamoxifen in relation to the other procedures being performed.
- * It is not clear how long animals are required to be fasted prior to colonoscopy. If >24 hours, then animals are to be pain category E and a consultation with the AV and a 3R discussion of this fasting is required.
- * Must submit documentation of any consultation with revised modification.
- * The chemical safety protocol is required to be updated.
- * In what substances is the ellagic acid dissolved?
- * How much blood is collected?
- * Remove the PICR rats from the transgenic table – they are not genetically modified animals.
- * A new modification addressing these concerns must be submitted to the IACUC.

Immune Response to Tumor Neoepitopes

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * Are tumors expected to metastasize? If yes, the pain category is “D” and a narrative for 3Rs is required. If not, state that.
- * Please discuss how you will monitor the rate of growth in the animals. What is the expected rate of growth? Please state that you will comply with the IACUC policy on tumors.
- * A new modification addressing these concerns must be submitted to the IACUC.

Chemopreventative effects of TP-252 with or without Naproxen on PIRC model of FAP

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * It is no clear why animals must be fasted for 48 hours prior to colonoscopy. If >24 hours, then animals are to be pain category E and a consultation with the AV and a 3R discussion of this fasting is required.
- * Must submit documentation of any consultation with revised modification.
- * A new modification addressing these concerns must be submitted to the IACUC.

Biodegradable Ultrasonic Transducer for Disrupting the Blood-brain Barrier for Drug Delivery

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * It is stated that the “tumor growth will be monitored through bioluminescence under the IVIS system”. For this to be possible the cells implanted need to have the luciferase gene and the mice need to be injected with luciferin as part of the IVIS imaging. They need to state that the cells contain the luciferase gene. It should also state the dosage of the luciferin they are injecting.
- * Please provide the pain categories for all the mice being added.
- * Please consult with the AV prior to resubmitting this modification; there is a concern that the pain category would be “D”; if that is the case, then a narrative for the 3Rs is required.
- * Athymic nude mice are not recombinant, so please remove them from the Tg/GT table.
- * A combination Bio/Chem safety protocol is required. Please consult with the BSO and Chemical Safety Officer.
- * A new modification addressing these concerns must be submitted to the IACUC.

[REDACTED] Hematopoietic Stem Cells - A Study of their Developmental Regulation, Self-renewal, and Differentiation

MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

* Please state that mice will be deeply sedated, not anesthetized by the bell-jar method. Otherwise, you are required to use a vaporizer to anesthetize animals.

* This requires IBC modification; please contact the BSO for information.

* Provide the pain categories for the animals to be added.

* Please update the sequence of experimental procedures so the IACUC understands when these new procedures are being performed in relation to the project as a whole.

* A new modification addressing these concerns must be submitted to the IACUC.

[REDACTED] Study the Role of Leukocytes in Inflammatory Diseases

APPROVED

2D. ANNUAL REVIEWS BY FCR

[REDACTED] Biodegradable Piezoelectric Wound Dressing

APPROVED

[REDACTED] Understanding Phenotype of Mouse Model for Proximal Colorectal Cancer

APPROVED

[REDACTED] Immune Responses to Microbes

APPROVED

[REDACTED] Thioredoxin-1 Engineered Exosomes in Sepsis

APPROVED

[REDACTED] Thioredoxin-1 Engineered Exosomes in Wound Healing

APPROVED

[REDACTED] Guinea Pig - Delivery of Injectable Skin Pigmentation and Removal

APPROVED

[REDACTED] Rat Achilles Tendon Injury Model

APPROVED

[REDACTED] Delivery of Regenerative Compounds into the Drug Damaged Inner Ear of Guinea Pigs

APPROVED

[REDACTED] Developing a New Therapeutic Strategy to Treat Lapatinib Resistant HER2 Positive Gastric Cancer

APPROVED

[REDACTED] FGF Receptors in Myelin Function and Disease

APPROVED

* Post meeting note: the annual review was submitted.

[REDACTED] Rederivation and Cryopreservation of Mouse Strains

APPROVED

[REDACTED] COX-2 Regulation of Bone Responses to PTH

APPROVED

Developing a Mouse Model for Symptomatic Apical Periodontitis
APPROVED

Erythropoiesis and Bone Homeostasis in Sickle Cell Disease and Sickle Cell Trait Mice
APPROVED

Determining Acid Load in Adult Mice
APPROVED

Proteomic and Functional Analyses of Exosomes in EAE
APPROVED

2E. DOCUMENTATION OF ADMIN / DMR / VVC REVIEWED PROTOCOLS AND MODIFICATIONS

Epigenetic Profiling of Mouse Embryonic Development
DMR REVIEW; MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR
* Is this really a new protocol or a renewal of [REDACTED] ?
* Procedural training records must be uploaded into the document.
* "None apply" checkbox in protocol checklist needs to be removed.
* RRCF upload needs to be removed.

Rabbit Tibial Cortical Defect
DMR REVIEW; MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR
* The correct necropsy room is required.
* "Imaging using ionizing radiation" must be checked in the hazard section.

Evaluation of the Role of mPGES-1 in Mouse Tumor Models
DMR REVIEW; MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR
* This protocol is a 3-year renewal and does not require another merit review.
* 3R narrative requires more information.
* Unclear where analgesics are being used.
* Method to confirm death after CO₂ narcosis must be listed.
* Tamoxifen must be added to the chemical hazard list and the animal chemical safety protocol requires updating.
* RRIT needs corrections.

Long Non-Coding RNAs in Asthma
DMR REVIEW; MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR
* This protocol is a 3-year renewal and does not require another merit review.
* The lay summary is too scientific.
* The scientific summary cannot reference the lay summary; these are two distinct requirements.
* Sequence of experimental procedures requires clarifications.
* Strain/stock/breed question requires corrections.
* Rationale for animal numbers requires more information.
* "Aerosolization" procedure should be replaced by "Administration of experimental compounds" as what is being described is intranasal inoculations, not aerosolizations.
* Procedures need to be discreet – they are mixed up throughout the document and it is difficult to understand.
* Mice should be checked after R/O bleeding to ensure that there was no damage to the eye.
* No room locations were identified.

Testing a Novel 4 in 1 Medical device in a Pediatric Model of Esophageal Surgery
VVC REVIEW; APPROVED

[REDACTED]

Basic Fibroblast Growth Factor Expression in Bone Cells
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

The Effects of Methyl Donor Deficiency on Intestinal Tumorigenesis
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Function and Regulation of the BK Channel
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Influence of Aging on Immune Response
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Biodegradable Ultrasonic Transducer for Disrupting the Blood-brain Barrier for Drug Delivery
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Erythropoiesis and Bone Homeostasis in Sickle Cell Disease and Sickle Cell
MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR
* What is the rationale for hypothesizing that subcutaneous injection of PRG4/lubricin might attenuate SCD associated OA, bone loss and anemia?
* What is the source of the PRG4/lubricin that will be injected?

[REDACTED]

Rederivation and Cryopreservation of Mouse Strains
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Development of Controlled Release Analgesics
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Intracranial PDX Mouse Models
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Angiogenic Regulators in Ischemic Disorders
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Thioredoxin-1 Engineered Exosomes in Sepsis
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Thioredoxin-1 Engineered Exosomes in Wound Healing
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Thioredoxin-1 Reprogrammed Exosomes Promote Cardiac Repair
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Models of Autoimmunity
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Cellular and Molecular Mechanisms of Renal Fibrosis
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Immune Responses to Microbes
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Characterization and Development of Cure for GSD Mouse Models
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Role of TGF-beta Signaling in Regulation of Muscle Mass and Function
ADMINISTRATIVE REVIEW; MODIFICATIONS REQUIRED
* A rationale for the use of a new Tg/GT line must be included in the modification.

Chemopreventive Effect of Ifetroban and/or Sulindac on Tumor Formation in PIRC Model

ADMINISTRATIVE REVIEW; APPROVED

Understanding Phenotype of Mouse Model for Proximal Colorectal Cancer

ADMINISTRATIVE REVIEW; APPROVED

Cellular and Molecular Mechanisms of Renal Fibrosis

ADMINISTRATIVE REVIEW; APPROVED

Modification of the mouse genome

DMR REVIEW; MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

* This modification requires IBC approval (which is already submitted for the November 12 IBC meeting) because the bovine iPSC are recombinant. They have been transduced with murine retroviruses for reprogramming and when the embryos are transferred into pseudomoms, it becomes a recombinant experiment. There is a question about which containment level should be required given that the mice are permissive for murine retroviral vectors and the IBC needs more details about the retroviral vector production system producing replication competent retrovirus free vector preps.

Characterization of Articular Changes in Osteoarthritis after Controlled Release of Adipose Derived Stem Cells

DMR REVIEW; MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

* The PI needs to complete the section in addition of drugs as to why those drugs are being used.

Regulation of Retinal Angiogenesis and Vascular Integrity by the Oxygen Sensing Mechanism

ADMINISTRATIVE REVIEW; APPROVED

Induction of Immune Tolerance through Cannabinoid Receptors

ADMINISTRATIVE REVIEW; APPROVED

Drinking-in-the-Dark (DID)

ADMINISTRATIVE REVIEW; APPROVED

Development of Controlled Release Analgesics

DMR REVIEW; APPROVED

Neural Basis of Active Avoidance Behavior

VVC REVIEW; APPROVED

Role of Notch and NFATc in Bone Cells

ADMINISTRATIVE REVIEW; APPROVED

The Role of Senescent Cells in Type-2 Diabetes and Frailty

ADMINISTRATIVE REVIEW; APPROVED

Assessment of Healing of Cutaneous Wounds

ADMINISTRATIVE REVIEW; APPROVED

Mesenchymal Progenitor Cell Differentiation

ADMINISTRATIVE REVIEW; APPROVED

Bone Directed Transplantation of MSCs as Therapy for Osteogenesis Imperfecta

ADMINISTRATIVE REVIEW; APPROVED

3. MISCELLANEOUS/CONTINUING DISCUSSIONS

- A. PAWS reviews – None
- B. Expired training and OHS enrollments
All individuals with expired training and/or OHS enrollment will be removed from the protocols effective 11/1/20. Any PI with expired training and/or OHS enrollment will have all protocols withdrawn effective 11/1/20.
- C. Protocol withdrawals – no annual review submitted
All protocols which did not have an annual review submitted to the IACUC will be withdrawn on 10/30/20.
- D. ImStem non-compliance
The IACUC discussed the issue. What has to be decided is how to ensure that when people have left UCHC, their access to the facility is withdrawn. The Chair will send a letter to the PI regarding this non-compliance.
- E. November facility inspection
The facility inspection will be at 9:00am on 11/20/20. The participants will be: ██████████
██████████. Please meet in the ██████████ office for assignments.
- F. Safety protocols – Word documents
An update of the status of new Word document safety protocols was given. The form will be a bio/chem combined document with individuals completing only the applicable sections for their own work. If people want to review the Word document, please contact the BSO or the Chemical Safety Office for information.
- G. Rabbit death, IACUC protocol # ██████████
The AV gave an overview of the incident. At gross necropsy, the left lung looked damaged and the right lung looked fine. The thought is that the rabbit had compromised lung compliance due to manual deflation and re-inflation of the lungs as this is common in rabbits. Final necropsy report is pending. The IACUC considered this to be an unfortunate complication from the surgery and not due to any non-compliance on the part of the researchers.
- H. Rabbit deaths, IACUC protocol # ██████████
The AV gave an overview of the incidences. Surgery on both animals appeared to go well. One animal died unexpectedly after surgery; probably due to surgical stress. Final necropsy report is pending. The second rabbit died 2 days after surgery showing no clinical signs. The health report obtained from where the rabbits were obtained indicated that *Bordatella bronchiseptica* was found in the room; the rabbits showed no symptoms of a *Bordatella* infection. Final necropsy reports are pending. The IACUC considered this to be an unfortunate complication from the surgery and not due to any non-compliance on the part of the researchers.
- I. Protocol reviews (at meeting)
IACUC members are asked to complete their reviews by the assigned dates. Keeping the emails that give the due dates that are sent to reviewers might be helpful.

- J. Extended use buprenorphine (at meeting)
Extended use buprenorphine is now available. The cost is significantly higher than standard buprenorphine. Researchers will be required to modify their IACUC protocols to use this. The AV will draft an email informing the research staff that this is now an option for use; he will send it to the IACUC administrator for distribution.

Meeting adjourned 4:24 p.m.

APPROVED: _____
Joseph Lorenzo, M.D., UCH IACUC Chair

11/19/20
Date



INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETING MINUTES
November 19, 2020

Present:

[REDACTED]

Excused:

[REDACTED]

Absent:

[REDACTED]

The Chair of the IACUC opened the meeting at 3:50 p.m. in the [REDACTED]

1. REVIEW OF OCTOBER 29TH MEETING MINUTES

M/S/P to approve the October 29th meeting minutes by a vote of 17-0-0.

2. REVIEW OF ANIMAL CARE APPLICATIONS

2A. DEFERRED / DISAPPROVED APPLICATIONS REVIEWED BY FCR

None

2B. NEW APPLICATIONS REVIEWED BY FCR

[REDACTED]

Validation of T cell Specific Surface Proteins as Therapeutic Target
MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY FCR

- * At present, there is no scientific merit for this proposal.
- * Training records are required for all research associates.
- * All references to hamsters must be deleted.
- * PI must consult with AV prior to resubmitting the document.
- * Behavioral tests are mentioned in the sequence of experimental procedures but not described in the non-surgical procedures section.
- * Pain categories are incorrect – tumor induction is not “C”, but either “D” (no metastases) or “E” (potential metastases). AV consultation is required as well as more information related to pain category (e.g., 3R discussion).
- * Rationale for animal numbers is incomplete.
- * Method of animal restraint to be used when injecting human cells needs to be stated.
- * Unclear of the blood volume to be collected and the number of times this is done to an individual animal; PI needs to consult with the AV.
- * More information is required as to what types of cell lines are going to be used with what type of procedure.

Institutional Animal Care and Use Committee
263 FARMINGTON AVENUE, MC 1523
FARMINGTON, CT 06030-1523
PHONE 860.679.3429
FAX 860.679.1005
ooacc@uchc.edu
research.uchc.edu

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Uploaded to Animal Research Laboratory Overview (ARLO) on 04/07/2021

- * Endpoint of BSC of 1 may be too extreme; please consult with the Attending Veterinarian,
- * Method of confirmation of death after CO₂ narcosis needs to be provided.
- * RRIT requires changes.
- * PI needs to confirm that no recombinant material will be implanted into animals.

2C. MODIFICATIONS REVIEWED BY FCR



Molecular Targets of Corneal Anti-angiogenesis and Retinal Gliosis
MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR

- * Is extended release buprenorphine being used? If so, clearly state that as regular buprenorphine needs to be given more often than 72 hours.
- * Please identify NM at the beginning of the modification request (section 2).
- * Please provide the pain category for all additional animals.
- * Regarding the PAD4 inhibitor, how is a total of 5uL being given when it is being administered in increments of 2uL?
- * Need to add the mustard analogue and the PAD4 inhibitor to the drug table.
- * Please submit a new document with these changes to the IACUC.

2D. ANNUAL REVIEWS BY FCR



Genetic Control of Skeletal Development, Arthritis, and Limb Regeneration
APPROVED



IRAK4 and Systemic Lupus Erythematosus
APPROVED



Effect of Sideroflexin4 on Ovarian Cancer Growth and Metastasis
APPROVED



Induction of Immune Tolerance through Cannabinoid Receptors
APPROVED



Limb Regeneration in Amphibians
APPROVED



The Nervous System as a Regulator of Immune Homeostasis
APPROVED



Rabbit ACL Reconstruction Model with Synthetic ACL Substitutes
APPROVED



Determining a Signature of Peripheral Regulatory T Cells
APPROVED



Influence of Aging on Immune Response
APPROVED



Signal Transduction at Fertilization
APPROVED



The Jackson Laboratory Protocol for Purchasing JAX Mice for Transfer to CCM training protocol
APPROVED

Regulation of Channel Function
APPROVED

Characterization of HS-rich Cells in Mammals
APPROVED

Development of Controlled Release Analgesic
APPROVED

Modification of the Mouse Genome
APPROVED

In vivo Determination of the Reduction of Metallosis from Arthroplasty
Metallic Implant Degradation Products via Dimercaprol-functionalized
Glycosaminoglycan Chelation Therapy
APPROVED

2E. DOCUMENTATION OF ADMIN / DMR / VVC REVIEWED PROTOCOLS AND MODIFICATIONS

Holding of Laboratory Animals – Mice
DMR REVIEW; MODIFICATIONS REQUIRED
* Merit review is not required; please change to “no”.
* Some room locations need to be deleted.

Metabolic Changes in the Trophectoderm Induce the Selective Elimination of
Aneuploid Cells within the Inner Cell Mass of Preimplantation Embryos
DMR REVIEW; MODIFICATIONS REQUIRED
* Room locations are not correct.

Isolation of Adult Rat Cardiac Myocytes
DMR REVIEW; APPROVED

Structural Organization of the Endoplasmic Reticulum
DMR REVIEW; MODIFICATIONS REQUIRED
* A complete overview is required in the lay summary.
* It does not appear that animals are being fasted for >24 hours, so that
checkbox in the protocol checkbox section should be deleted.
* RRIT needs to be corrected.

Polyclonal Anti-'trypanosome protein' Antibodies from Rat
DMR REVIEW; APPROVED

Animal Models for Investigation of Vascular Development and Disease
DMR REVIEW; APPROVED

Erythropoiesis and Bone Homeostasis in Sickle Cell Disease and Sickle Cell
DMR REVIEW; APPROVED

In vivo BioID using sarcomere BioID
DMR REVIEW; MODIFICATIONS REQUIRED
* Tamoxifen needs to be added to the chemical safety protocol Hz#-MCh0354-
101345.
* Chemical containment room needs to be added to the modification document.
* A revised document incorporating these changes needs to be submitted to the
IACUC office.

In vivo Hemi Limb Defect Model for Hemi Limb Regeneration
DMR REVIEW; APPROVED

Understanding Phenotype of Mouse Model for Proximal Colorectal Cancer
ADMINISTRATIVE REVIEW; APPROVED

Mouse Model of Cancer Dissemination and Invasion
ADMINISTRATIVE REVIEW; APPROVED

The Study of Host-gut Microbiome Interactions
DMR REVIEW; MODIFICATIONS REQUIRED
* Some answers seem to have been removed during the modification; these need to be re-added.

The Role of the Microbiome in Asthma
DMR REVIEW; APPROVED

Dopaminergic Modulation of Developing Cortex
ADMINISTRATIVE REVIEW; MODIFICATIONS REQUIRED
* RRIT form must be updated with correct GMO number and re-attached to the protocol in InfoEd.

Developing a Mouse Model for Symptomatic Apical Periodontitis
ADMINISTRATIVE REVIEW; APPROVED

Immune Responses to Microbes
ADMINISTRATIVE REVIEW; APPROVED

Genetic Control of Skeletal Development, Arthritis, and Limb Regeneration
ADMINISTRATIVE REVIEW; MODIFICATIONS RQUIRED
* IBC registration form for new line to be developed at UCH needs to be completed, submitted, and approved by the IBC.

Metabolic Testing in Mouse Models
ADMINISTRATIVE REVIEW; APPROVED

Assessment of Healing of Cutaneous Wounds
ADMINISTRATIVE REVIEW; MODIFICATIONS REQUIRED
* New individuals must have training, OHS enrollment, and medical clearance.
* New individuals must have training records attached.

Autologous Whole Tissue Cancer Immunotherapy
ADMINISTRATIVE REVIEW; APPROVED

Testing a Novel 4 in 1 Medical device in a Pediatric Model of Esophageal Surgery
ADMINISTRATIVE REVIEW; APPROVED

Investigating Autologous Blood Patch and its Role in the Treatment of Pediatric Disease
ADMINISTRATIVE REVIEW; APPROVED

Exploring Tissue Engineered Scaffolds as a New Surgical Approach for Patients Suffering from Esophageal Defects or Injuries
ADMINISTRATIVE REVIEW; APPROVED

New Surgical Approaches to Treat Tracheal Fistulas and Injuries
ADMINISTRATIVE REVIEW; APPROVED

Novel Cell Therapy & Tissue Engineering Approaches for the Treatment of Neonatal Lung Disease
ADMINISTRATIVE REVIEW; APPROVED

Function and Regulation of the BK Channel
ADMINISTRATIVE REVIEW; APPROVED

Animal Models for the Investigation of Vascular Development and Disease
VVC REVIEW; APPROVED

Role of Notch in Arthritis
ADMINISTRATIVE REVIEW; APPROVED

Cellular and Molecular Mechanisms of Renal Fibrosis
ADMINISTRATIVE REVIEW; APPROVED

3. MISCELLANEOUS/CONTINUING DISCUSSIONS

- A. PAWS reviews - None
- B. Expired training and OHS enrollments
All individuals with expired training and/or OHS enrollment will be removed from the protocols effective 12/1/20. Any PI with expired training and/or OHS enrollment will have all protocols withdrawn effective 12/1/20.
- C. Protocol withdrawals – no annual review submitted – None
- D. Improper ABSL-2/Chemiso cage labeling in CGSB
The IACUC administrator gave an overview of the containment room in the CGSB – utilized, at present, by 1 TIPS company – were not following labeling requirements for both animal cages in the room and hazardous carcasses stored in the necropsy freezer. The research staff involved admitted to their error and have since corrected the cage labeling. They will adhere to the carcass labeling as well. The Chair will send a letter to the PI reminding them of the requirements and rationale for the requirements.

Meeting adjourned at 4:17 p.m.

APPROVED: _____
Joseph Lorenzo, M.D., UCH IACUC Chair

12/17/20
Date



INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETING MINUTES
December 3, 2020

Present:

[REDACTED]

Excused:

Absent:

[REDACTED]

Guest:

[REDACTED]

The Chair of the IACUC opened the meeting at 3:00 p.m.

1. REVIEW OF ANIMAL CARE AND USE PROGRAM

The IACUC used the checklist provided by the OLAW website to evaluate the Health Center's animal care and use program. There were no deficiencies noted in the animal care and use program.

The IACUC uses a 7% or less reporting rate to OLAW as indicative of effective training. To date this year, we have had 1 report to OLAW, given that we have 246 active protocols, this is a reporting rate of 0.4%; therefore, the IACUC considered that our training is effective.

The disaster plan was updated to include information regarding the IACUC which was reviewed by the Committee. CCM is in the process of updating the CCM disaster plan with Public Safety and will send the IACUC the final plan.

2. REVIEW OF ANIMAL FACILITIES

The IACUC used the standardized review form provided by the OLAW website to review the Health Center's evaluation of the animal facilities. There were no significant deficiencies in the review of animal facilities. There was one room with significant deficiency with humidity and temperature. There were some minor deficiencies that have been corrected or on schedule to be corrected by the targeted completion date. The AV requested inspection personnel to make a concerted effort to check on caging conditions of the animals (e.g., overcrowded cages, dirty cages).

3. REVIEW OF ANIMAL STUDY AREAS (INVESTIGATOR LABORATORIES)

The IACUC used the standardized review form provided by the OLAW website to review the Health Center's evaluation of the animal study areas. It was noted that there were no significant deficiencies during this review cycle. There were some minor deficiencies that have been corrected or on schedule to be corrected by the targeted completion date.

4. IACUC POLICY RENEWALS

The following IACUC policies were approved by the IACUC either outright or with changes stated at the meeting, 16-0-0:

- New protocol submissions
- Use of CFA
- Animal training and OHS requirements
- Animal reviews and expired protocols
- Compliance with the *Guide*
- Rodent tumor production
- Animal stabilization
- Animal housing and enrichment

5. SEMI-ANNUAL REPORT TO THE IO

The report to the institutional official (IO) will be written by the IACUC Administrator and will be sent to all IACUC members for his/her signature and then sent to the IO.

Meeting adjourned at 3:47 pm.

APPROVED _____
Joseph Lorenzo, MD, UCH IACUC Chair

Date 12/17/20



INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE MEETING MINUTES
December 17, 2020

Present: [REDACTED]

Excused: [REDACTED]

Absent: [REDACTED]

The Chair of the IACUC opened the meeting at 3:03 p.m. in the [REDACTED]

1. REVIEW OF NOVEMBER 19TH AND DECEMBER 3RD MEETING MINUTES

M/S/P to approve the November 19th meeting minutes by a vote of 14-0-0.

M/S/P to approve the December 3rd meeting minutes by a vote of 14-0-0.

2. REVIEW OF ANIMAL CARE APPLICATIONS

2A. DEFERRED / DISAPPROVED APPLICATIONS REVIEWED BY FCR

[REDACTED] Validation of T-cell Specific Surface Proteins as Therapeutic Targets
MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR
* Merit reviewer stated here is merit.
* 3R discussion is required for all pain category D procedures.
* More information is required regarding the restraint device being used.
* What are “edited” cells?
* Drug tables appear to be incomplete.
* Animals given human cells must be housed at ABSL-2.
* Biosafety protocol is required.
* PI needs to confirm that no recombinant materials are being given to the animals.
* Question regarding phenotypic pain/distress of transgenic animals must be answered.

2B. NEW APPLICATIONS REVIEWED BY FCR

██████████ Role of PRG4 in Inflammatory Bone Loss
MODIFICATIONS REQUIRED, SUBSEQUENT REVIEW BY DMR
* Merit reviewer stated that there is merit.
* Title requires corrections.
* Lay summary is too technical and needs to be rewritten.
* Reviewer states that protocol has merit.
* Suggestion given about the maintenance of the homozygous lines to increase stability of the lines.
* Drug tables are incomplete.
* A statement should be made as to whether or not there is any adverse effects from giving mice TNF α .
* Tissue harvest procedure should state how all animals are being euthanized.
* RRIT table requires changes.

2C. MODIFICATIONS REVIEWED BY FCR

None

2D. ANNUAL REVIEWS BY FCR

██████████ Human ES cell-derived MSCs Treat Experimental Allergic Encephalomyelitis
APPROVED

██████████ CD8 T Cell Response to Viral Infection
APPROVED

██████████ The Function of hES-MSCs in the Treatment of a DSS-Colitis Model of IBD
APPROVED

██████████ Epigenetic Control of Cartilage Development and Homeostasis
APPROVED

██████████ Molecular Targets of Corneal Anti-angiogenesis and Retinal Gliosis
APPROVED

██████████ Studies of CD45R/B220+ Osteoclast Precursor
APPROVED

██████████ Osteogenic Markers in Response to Piezocision
APPROVED

██████████ Using Mouse Models to Study Cardiac Regeneration
APPROVED

██████████ Characterization and Development of Cure for GSD Mouse Models
APPROVED

██████████ Piezoelectric Scaffold/Hydrogel for Rat Trochlear Groove Cartilage Repair
APPROVED

██████████ Modeling Skin, Gut, or Other Microbiome Interactions in Mice for Disease Resolution
APPROVED

Dopamine's Role in Ca²⁺ Homeostasis
APPROVED

Brain Tumor Therapy in Rats
APPROVED

Faecalibacterium Post-Blotics Glucose Tolerance and Insulin Sensitivity Testing
APPROVED

Signaling Mechanisms that Regulate Meiosis in Mammalian Oocytes
APPROVED

2E. DOCUMENTATION OF ADMIN / DMR / VVC REVIEWED PROTOCOLS AND MODIFICATIONS

Generation of Mouse Embryo Fibroblasts (MEFs) to Support Human Pluri-potent Stem Cell Maintenance
DMR REVIEW; APPROVED

Clinical Development of a Novel Tracheal Sealant
DMR REVIEW; MODIFICATIONS REQUIRED

- * Lay summary must include an overview of the experimental design.
- * The 3R discussion must also include a discussion for replacement of painful procedures, not just replacement of animals.
- * The tracheal injury is a major, not minor, survival surgery.
- * It must be stated how it will be determined that animals are appropriately anesthetized.
- * Use generic "ophthalmic ointment" rather than ParaLube to avoid any unintentional non-compliance.
- * It is unclear if PI is keeping animals in the lab for >24 hours.
- * Animal monitoring post-surgical is insufficient for procedure being performed.
- * The method to confirm death after CO₂ narcosis must be stated.

Mouse Models to Research the Skeleton
DMR REVIEW; MODIFICATIONS REQUIRED

- * As a 3-year renewal, the merit review question should be "no".
- * "Sentinel Monitoring" has been added to the non-surgical procedures list.

Studying Esophageal Regeneration using Tissue Engineered Scaffolds
DMR REVIEW; APPROVED / MODIFICATIONS REQUIRED

- * Potential value of the work has not been stated.
- * Unclear if rats are used more than once.
- * Must be stated how an animal number of 5 per group is appropriate.
- * More information is required for surgical procedure.
- * Animals should be given a half dose of buprenorphine after surgery.
- * Use of extended release buprenorphine should be used.
- * It should be stated when sutures are removed.
- * Section 9 should state that there is potential for deficits due to the surgery.
- * It should be stated for how long animals will be singly housed after surgery.

The Function of C1qI1 in Oligodendrocyte Progenitor Cells
DMR REVIEW; MODIFICATIONS REQUIRED

- * Procedural training records required.
- * Sequence of experimental procedures is unclear.
- * Number of breeders proposed is not justified.
- * Sanitation procedure of behavioral equipment is required.
- * Cuprizone procedure requires a monitoring program for the animals.
- * Defined procedures must be used.

- * Bell jar cannot be used for anesthesia with isoflurane – a vaporizer is required.
- * Room locations, outside of the room location question, should be removed.
- * Perfusion procedure has inconsistent details.
- * Chemical safety protocol required.

Role of P2X4R in Ischemic Stroke

DMR REVIEW; MODIFICATIONS REQUIRED

- * References to searches in 3R discussion should be removed.
- * Room locations in procedure descriptions need to be deleted.
- * Adequacy of depth of anesthesia should be lack of response to firm toe pinch.
- * Reference to estrogen in ovariectomy should be deleted as it is covered in the subcutaneous transplantation procedure.
- * Is the 2nd half of buprenorphine given immediately after the ovariectomy?
- * Named procedures are to be used.
- * Unclear when experimental drugs are being given.
- * Unclear why the ChemIso/ABSL-2 room is selected in room locations; there is no evidence of any biohazards being used in the protocol.
- * Chemical hazard table requires corrections.
- * Modified chemical safety protocol is required.
- * IBC issues required clarifications.

Effect of Neuroprotective and Neuro-rehabilitatory Agents on Post-stroke Recovery

DMR REVIEW; MODIFICATIONS REQUIRED

- * Lay summary is incomplete.
- * Sequence of experimental procedures requires corrections.
- * Rationale for animal numbers requires more information.
- * Some details in the descriptions of procedures do not match what is presented in the sequence of experimental procedures.
- * Frequency of water changes in the Morris Water Maze needs to be discussed with the Attending Veterinarian.
- * Room locations in procedures need to be removed.
- * An additional criteria for euthanasia should include failure to access food and water.

Mouse Models to Research the Skeleton

DMR REVIEW; APPROVED / MODIFICATIONS REQUIRED

- * Sequences of experimental procedures requires clarifications.
- * Rationale for animal numbers is incomplete.
- * Chemical disclaimer must be added to the appropriate procedure sections.
- * The amount of blood collected must be stated.
- * Room locations require corrections.
- * Chemical safety protocol requires modifications.

Differentiation of Mesenchymal Progenitor Cells

DMR REVIEW; MODIFICATIONS REQUIRED

- * Sequence of experimental procedures requires clarifications.
- * Animal numbers require clarifications.
- * DEXA imaging is listed as a procedure, but it is not in the sequence of experimental procedures nor is the room in which this instrument is located in the room location list.
- * Agents used in the administration of experimental compounds requires clarifications.
- * Standard hazard disclaimers must be placed into all procedures using hazardous agents.
- * More information is required in the use of the Su16f compound.
- * Unclear if tamoxifen is given before, during, or after parabiosis.
- * More information regarding the scaffolds being used is required.
- * Unclear in the non-surgical perfusion procedure about what is being perfused.

- * Room location list appears to be incomplete.
- * Chemical safety protocol requires update.
- * IBC registration is required.

Telomere-to-Telomere Assembly of Complete Zebrafish Genomes

DMR REVIEW; / MODIFICATIONS REQUIRED

- * Protocol is stated to be a tissue harvest with CCM personnel performing the fish euthanasia but there are multiple people on this stating that they are going to perform experiments with no training in fish euthanasia. If they are not going to perform euthanasia, they should be removed or the description of “performing experiments” should be removed.
- * The lay summary reads like a scientific summary and the scientific summary reads like a lay summary; they need to be switched.
- * Sequence of experimental procedures has too much extraneous detail that is not required.
- * Description in the tissue harvest section has too much information that is not required; it should simply state how the animals are euthanized and for what purpose.
- * Room location list requires explanation; if animals are to be euthanized in CCM upon receipt, why are PI laboratories listed?
- * Minimizing pain and distress section is confusing and needs to be corrected stating that this is a tissue harvest protocol only.

IRAK4 and Systemic Lupus Erythematosus

DMR REVIEW; MODIFICATIONS REQUIRED

- * The 3R discussion for fear conditioning is incomplete. Replacement was addressed, but not reduction nor refinement.
- * Water tank procedure should clearly state that animals will not be left unattended and will be immediately removed should they not swim.

Development of Controlled Release Analgesics

DMR REVIEW; APPROVED

Murine Models of Skeletal Repair

DMR REVIEW; APPROVED

Basic Fibroblast Growth Factor Expression in Bone Cells

VVC REVIEW; APPROVED

Mechanisms of Cerebral Cortical Development in Mice

VVC REVIEW; APPROVED

Enhancing Bone Healing in Aged Mice

DMR REVIEW; APPROVED

Studies of CD45R/B220+ Osteoclast Precursor

DMR REVIEW; APPROVED

Neural Basis of Active Avoidance Behavior

VVC REVIEW; APPROVED

The Effects of Methyl Donor Deficiency on Intestinal Tumorigenesis

ADMINISTRATIVE REVIEW; APPROVED

Development of Controlled Release Analgesics

VVC REVIEW; MODIFICATIONS REQUIRED

- * Dosage of lidocaine should not exceed 8mg/kg. Do you have any references for this dosage request?

[REDACTED]

Radiation Therapy, Imaging, and Adjunct Immunoprophylaxis
DMR REVIEW; MODIFICATIONS REQUIRED
* Needs updated chemical safety protocol.

[REDACTED]

Regulation of Bone Remodeling: Role of Signaling Proteins
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

MicroRNA29 Regulation in Bone Cells
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

miRNA Regulation in Osteoblasts
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

miR-433 in Skeletal Cells
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Musculoskeletal Consequences of Acidosis
DMR REVIEW; APPROVED

[REDACTED]

Osteoblast Lineage Plasticity in Zebrafish
DMR REVIEW; APPROVED

[REDACTED]

Murine Models of Skeletal Repair
Primary Reviewers: POHL
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

CD8 T cell Response to Viral Infection
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Understanding Phenotype of Mouse Model for Proximal Colorectal Cancer
DMR REVIEW; APPROVED

[REDACTED]

Function and Regulation of the BK Channel
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Molecular Regulation of Lineage Specification of the Mouse Cerebellum
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

The Study of Host-Gut Microbiome Interactions
DMR REVIEW; MODIFICATIONS REQUIRED
* Sequence of experimental procedures needs to add the new procedure.
* Room location is required for location of behavioral testing.

[REDACTED]

Development of Controlled Release Analgesics
DMR REVIEW; APPROVED

[REDACTED]

Modulating Co-stimulation to Break T-cell Tolerance and Elicit Tumor Immunity
DMR REVIEW; APPROVED

[REDACTED]

COX-2 Regulation of Bone Responses to PTH
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Mechanisms of Cerebral Cortical Development in Mice
ADMINISTRATIVE REVIEW; APPROVED

[REDACTED]

Role of Notch in Arthritis
ADMINISTRATIVE REVIEW; APPROVED



Regulation of Channel Function
ADMINISTRATIVE REVIEW; APPROVED



Animal Models for the Investigation of Vascular Development and Disease
ADMINISTRATIVE REVIEW; APPROVED



Characterization and Development of Cure for Glycogen Storage Disease
 Mouse Models
DMR REVIEW; APPROVED



Characterization of *Treponema pallidum* Rare Outer Membrane Proteins
ADMINISTRATIVE REVIEW; APPROVED



Phagosomal Signals Shape Inflammatory Responses to *Borrelia burgdorferi*
ADMINISTRATIVE REVIEW; APPROVED



Modeling Skin, Gut, or Other Microbiome Interactions in Mice for Disease
 Resolution
ADMINISTRATIVE REVIEW; APPROVED



Development of Controlled Release Analgesics
ADMINISTRATIVE REVIEW; APPROVED

3. MISCELLANEOUS/CONTINUING DISCUSSIONS

- A. PAWS reviews – None
- B. Expired training and OHS enrollments – None
- C. Protocol withdrawals – no annual review submitted – None
- D. Update, protocol

The Attending Veterinarian gave an update from last month’s discussion regarding rabbit deaths after surgery. The AV and researchers had a meeting with an Envigo research team about the deaths. It was learned that the use of a heat blanket for the 3- hour timeframe as described in the surgical procedure results in a proliferation of *E. coli* which and this was not expected, as it is unique to rabbits. In addition, it was learned that Baytril given orally, rather than by injection, provides a more effective control of *E. coli* in rabbits. The PI will be required to modify the protocol to change these procedures.

Meeting adjourned at 3:26 p.m.

APPROVED: _____
 Joseph Lorenzo, M.D., UCH IACUC Chair

 1/28/21
 Date