**Animal Utilization Protocol**

This document needs to be submitted to the **Animal Care and Use Committee** (**ACUC**) and approved by them prior to acquiring or using animals for research, teaching or display purposes.

[ ] Research [ ] Teaching [ ] Display [] Others

**PROJECT TITLE: [ ]**

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| Starting date: |  | Completion date: |  |

1. **PERSONNEL:**

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| **Name** | **Institution/department** | **Contact- phone/ e-mail** |
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| **Attending veterinarian** | **Institution/Department** | **Contact-phone/e-mail** |
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1. **RESEARCH PROJECT OR TEACHING/DISPLAY INFORMATION:**

For research, is this a pilot/ preliminary study? [] YES [] NO

Has funding been approved for the study?

[] No. Applying for funds

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[] Yes. Provide Grant No. **(Attach a copy of approval letter/s)**

**-Peer review for scientific merit of research studies has been/will be performed by (Provide a copy comment by reviewer/s) :**

[ ] Granting agency [ ] graduate student advisory committee [ ] others-specify [ ]

**-Purpose of animal use (choose one of the below choices):**

[ ] Studies of a fundamental nature in sciences relating to essential structure or function (i.e. biology, psychology, biochemistry, pharmacology, physiology, behavior, etc.).

[ ] Studies for medical purposes, including veterinary medicine, that relates to human or animal nutrition, animal reproduction and/or animal care.

[ ] Studies for the development of products or appliances for human or veterinary medicine, animal nutrition, animal reproduction and/or animal care.

[ ] Education and training of individuals in post-secondary institution or facilities

[] General operating protocols (for routine management of herds/colonies)

[] Diagnostic purposes.

**Classificaiton:**

[] Acute-utilizing an animal for a brief period (less than 24hrs, followed by euthanasia or return of animal to source, or humanely killing an animal upon receipt or after a brief housing period during which time no manipulations other than standard management producers are performed, i.e. anesthetized without recovery, euthanized for tissue collection, etc.

[] Chronic-maintaining the animal and performing experimental procedures during this time, i.e. feeding trials, antibody production, breeding colony, recovery surgery.

Category of Invasiveness:

(Tick the most appropriate one that matches your work):

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|  | -Involve or have no use for living materials; use of plants, bacteria, protozoa, invertebrates.  -Studies on tissues obtained from autopsy, slaughterhouse, embryonated egg. |
|  | -Experiments on vertebrates species, expected to produce little or no discomfort.  -Mere restraint for blood sampling, injection of harmless substance and/or physical examination.  -Experiment on completely anaesthetised animals which do not regain consciousness, food/water deprivation for few hours, standard methods of euthanasia (anaesthetic overdose or sedation/light anaesthesia follow by decapitation) |
|  | -Experiments that involve some minor pain/discomfort for short duration to vertebrate species.  -Exposure of blood vessels, implant chronic catheters, behavioral study involving short-term stressful restraint, immunization employing Freund’s adjuvant, surgery under anaesthesia resulting in minor post-surgical discomfort. |
|  | -Experiments that involve significant but unavoidable stress or pain to vertebrate species.  -Deliberate induction of behavioral stress, major surgical procedure resulting in significant post-operative discomfort, induction of anatomical/physiological deficit resulting in pain/distress, application of noxious stimuli from which escaping is impossible, prolonged (**> several hours**) physical restraint, procedures that produce pain in which anaesthetics are not used (toxicity testing with death as end-point, production of radiation sickness, certain injections, stress and shock research resulting in pain approaching pain tolerance threshold/point of intense reaction). |
|  | Procedures that involve inflicting severe pain near, at, or above the pain tolerance threshold of unanaesthetized or conscious animals.  -Use of paralytic agent alone for surgical restraint without use of anaesthetics, severe burn or trauma infliction on unanaesthetized animals, inescapable severe stress or terminal stress |

1. **LAY SUMMARY**

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| * **(150-250 words)** * Provided concise summaries with Research or instructional background and anticipated impact and potential benefits to human and/or animal welfare. * Avoid using of technical jargon |
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1. **ANIMAL MODEL:**

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| -Justify the species and/or strain used for this research/teaching purpose.  -Please provide references. |
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1. **ALTERNATIVES:**

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| -Explain the necessity of using animals in this project, and why alternatives (in-vitro and ex-vivo systems) to replace the use of animals would be inappropriate to meet your project or teaching objectives.  -Please provide references. |
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| -Indicate any alternatives to animal use that are already incorporated into the project or course design (in vitro & ex vivo systems). |
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**6. ANIMAL USE:**

a) List **all animals** involved in your study.

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| **Qty** | **Species/Strain** | **Weight/**  **Age** | **Gender** | **Accommodation Building & Room** | **Experimental Area Building & Room (surgery or procedure rooms/area)** |
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| -Explain how the total number of animals to be used was determined:  e.g. 6 animals x 3 treatments x 1 replicates = 36 animals. Include a flow chart or table if necessary. |
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| -Indicate consideration given to reduce the use of animals in the project/course design. |
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**7. SOURCE:**

Indicate the source or supplier:

[] Faculty Animal Resource Unit, [] Faculty Herd / Flock,**\*** [] Faculty Hospital Resident Animal,

[ ] Client owned, [ ] Client Donated, [ ] Purchased**\*** (i.e. local suppliers, farms), [ ] Other institution (s),**\*** [ ] Import**\***(attach health certificate & import permit), [] Transfer from other researcher/ research**\*** (AUP No: )

\*= For the above, please provide details.

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| **Species** | **Source/Supplier** | **Address/Location** | **Phone Number** | **Mode Of Transportation** |
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**8. ANIMAL CARE & HUSBANDRY:**

- Specify provisions of basic requirements for each species/strain of animals used

(For guide on species care and husbandry requirements, please visit:

(Link has to be related to College of Veterinary Medicine/ University of Baghdad)

**Species/strain 1:**

Tick the most appropriate one of each point:

i. Caging: [ ] Plastic, [ ] Metal or [ ] Others [specify].

ii. Stocking density: [] Cage, [] Pen, [] Paddock dimension or [] Floor space.

iii. Flooring/Bedding: [ ] Wood slatted, [ ] Wire mesh, [ ] Wood shaving, [ ] Newspaper or

[ ] Others [specify].

iv. Room temperature: [ ] Not regulated or [ ] Regulated at 24 C.

v. Ventilation: [ ] Not regulated or [ ] Regulated.

vi. Feed: [ ] Custom-formulated or [ ] Commercial – Name of manufacturer [].

vii. Water source: [] Tap water Delivery, [ ] Bottle, [ ] Water bowl or [ ] Others-specify [].

**Species/strain 2:**

Tick the most appropriate one of each point

i. Caging: [ ] Plastic, [ ] Metal or [ ] Others [specify]

ii. Stocking density: [] Cage, [] Pen, [] Paddock dimension or [] Floor space.

iii. Flooring/Bedding: [ ] Wood slatted, [ ] Wire mesh, [ ] Wood shaving, [ ] Newspaper

or [ ] Others [specify].

iv. Room temperature: [ ] Not regulated or [ ] Regulated at 24 C.

v. Ventilation: [ ] Not regulated or [ ] Regulated.

vi. Feed: [ ] Custom-formulated or [ ] Commercial – Name of manufacturer []

vii. Water source: [] Tap water Delivery, [ ] Bottle, [ ] Water bowl or [ ] Others-specify []

-Specify the frequency of the following activities (if applicable) and who will be performing:

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| --- | --- | --- |
| Activity | Frequency | Performed by (name) |
| Feeding |  |  |
| Changing water bottle/bowl |  |  |
| Changing bedding/litter tray |  |  |
| Changing/cleaning cage/pen |  |  |

-Specify any enrichment provisions, i.e. social housing, specific materials, space and/or objects if any.

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**9. PROCEDURES:**

-By drawing a flow diagram, describe how the animals will be used (sequence of research/teaching procedures that the animal will undergo) in this project. Please provide references where appropriate.

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-List all procedures, manipulations, and/or measurements that will be performed on the animals and indicate what measures will be taken to alleviate or minimize any pain, distress or discomfort including post-operative care, specify analgesics and anaesthetics with dosages and routes of administration, and special procedures used.

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| Procedures: Including physical or chemical restraint, blood sampling, injection of compounds, e.g. antibiotics, chemicals, etc. | Frequency: If same procedure is repeated in the same individual. | No. of animals involved. | (B-E)**4** State invasiveness | Anaesthetics/analgesics Antibiotics, Drug, dosage, route |
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-List ALL the individuals who will carry out the above procedures and provide their technical qualifications and relevant experience in performing these procedures.

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| Name | Procedure (s) to be performed (list the corresponding No. 1, 2. etc.) | Qualifications / Experience with these |
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-Specify the criteria used to assess the level of anaesthesia required for invasive procedures (if relevant).

[ ] Respiratory rate, [ ] Heart rate, [ ] Corneal reflex, [ ] Toe pinch, [ ] Tail pinch, [ ] Response to procedures and/or [ ] Others – specify []:

-Specify the methods/criteria for monitoring the condition/level of pain and distress of the animals following the above listed procedures. (Please attach Assessment Sheet if this is available).

[ ] Loss of appetite, [ ] Loss of weight, [ ] Restlessness, [ ] Labored breathing, [ ] Loss/reduce mobility, [ ] Abnormal resting posture, [ ] Unresponsiveness, [ ] Failure to show natural inquisitiveness, [ ] Failure to groom/unkempt appearance, [ ] Red stains around eyes of rats, [ ] Guarding/protecting painful area, [ ] Licking, [] Biting, [] Scratching, [] Shaking of affected area and/or [ ] Others – specify []:

-Specify frequency of animal observations:

[] Daily husbandry routine.

[] Following experimental procedures.

**10. EXPERIMENTAL AND/OR ANIMAL USE ENDPOINT:**

When experimental procedures produce animals that may become ill, it is necessary to define an endpoint to ensure that an experimental animal’s discomfort, pain and/or distress is terminated, minimized or reduced.

-Indicate any clinical conditions or abnormalities expected or that could arise as a result of the proposed study or teaching exercise (e.g. behavioral changes such as increased grooming, vocalization or postural changes, or physical abnormalities such as anorexia, dehydration, diarrhea, etc.).

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-In terms of species-specific behavioral changes and physiological signs, list the criteria that will be used to trigger the decision to remove an animal from the teaching exercise or experiment, or to terminate the teaching exercise or experiment.

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**11. DISPOSAL OF ANIMALS:**

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| Species Retained - Specify Location. | Sold To/ Donated/ Transferred To/ Adopted By (Specify). | Euthanized Specify Method/ Drug /Dose. If a physical method of euthanasia is to be used i.e. cervical dislocation, justify its use. |
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**12. EMERGENCY VETERINARY CARE:**

Is normal veterinary care appropriate for animals in this project? [ ] YES [ ] NO

If **NO**, attach specific instructions in case an emergency should arise.

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| **IN THE EVENT OF AN ANIMAL HEALTH EMERGENCY, IF CONTACT CANNOT BE MADE WITH THE PERSONNEL LISTED IN ABOVE, THE DECISION OF A CLINICAL VETERINARIAN APPOINTED BY THE ACUC WILL BE FINAL.** |

**13. HAZARDS:**

Does the work involve in any circumstance with hazard?

[] Yes [] No

If your answer is YES fill the below table:

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| Type: | Specify agent, Dosage, Route, Frequency |
| Radiation |  |
| Radio-isotope |  |
| Carcinogen |  |
| Dangerous chemical |  |
| Contagious pathogen to humans [ ] animals [ ] |  |
| Recombinant DNA/RNA |  |
| Other (e.g. GMO, electroshock) |  |
| Specify what special animal care / containment procedure is required because of the hazard(s) involved: |  |