**Request to Keep Animals for Research Experiments (Form 4)**

**\*The following information/documents must be included in the application:** Updated CVs/bibliographies of the university affiliated and unaffiliated investigator(s). The research protocol explaining previous national and international reports, hypothesis/rationale/reasons for conducting the investigations, innovation aspect of the project, research setting and methods that also explain sample/population description and size calculation, funding sources, conflict of interests (social, commercial or financial), and Gantt Chart of the project schedule. Investigators must pledge not to change any of the research plan/methods or use data and samples for other objectives or hand them to the others except after applying for an approval from the committee. Similarity index of the project text must not exceed the allowable 25% (No more 10% from a single source). Investigators must sign all the submitted documents. Certificates of earning the electronic workshop for bioethics and other related mandatory training workshops must be attached (<http://bioethics.kacst.edu.sa/Register/register-resercher.aspx>).

**Section I: Information about the Submitted Research Application:**

**The Study Title:**

**The aim of the Study:** (A summary of no more than 3 sentences).

...............................................................................................................................................................................................................................................................................................................

Application Type: (specify all that apply): [ ]  New [ ]  Renewal for 3 years [ ]  A change on an approved application (Approval #):

Type of The Study: [ ]  Postgraduate Research [ ]  PhD Thesis [ ]  Master Thesis [ ]  Higher Diploma Project [ ]  University Degree graduation or Course-based Project [ ]  Other

Type of the Project: [ ]  Research [ ]  Educational (Course code: XXX) [ ]  Community service [ ]  Field study

Expected date for Project Start:

Date Experimentation on Animals Starts (If different than the project start date):

Expected Date for Project Completion:

Type of Living Organisms Used:

Total Number of Animals Required:

**Scientific terms used in this research proposal:**

|  |  |  |
| --- | --- | --- |
| Simple explanation | Term |  |
|  |  | 1 |
|  |  | 2 |
|  |  | 3 |

**Section II: Personal and Communication Information of the principal Investigator and research associates:**

**First: Personal and Communication Information and addresses of the principal Investigator:**

|  |
| --- |
| Name and Credentials of the Principal Investigator: |
| Work Address: Department / College: |
| E-mail: |
| Postal address: |
| Mobile/Landline Tel. #: |
| Emergency call number (a mobile phone #): |

**Second: Personal and Communication Information of the research associates:** (In case the co-investigator is a student, provide their information only in case he/she has initiated the project idea).

|  |  |  |  |
| --- | --- | --- | --- |
|  | Co-Investigator 1 | Co-Investigator 2 | Co-Investigator 3 |
| Name and Credentials: |  |  |  |
| Department / College: |  |  |  |
| Postal Address |  |  |  |
| Tel. # |  |  |  |
| E-mail: |  |  |  |

**Section III: Approval type and assessment method for this research:**

Fill all that apply to your research - Answering either Yes or No:

|  |  |  |
| --- | --- | --- |
| No | Yes | **Item** |
| [ ]  | [ ]  | Does the research conflict with the Islamic Law provisions concerning animal welfare? |
| [ ]  | [ ]  | Does the research use living vertebrates for research or teaching purposes? |
| [ ]  | [ ]  | Does the research use living vertebrates for exhibition purposes? |
| [ ]  | [ ]  | Does the experiment cause pain to the animals? |
| [ ]  | [ ]  | Will the research use genetically modified or cloned animals? |
| [ ]  | [ ]  | Is there a risk to the animal used? |
| [ ]  | [ ]  | Are there unapproved procedures or methods other than those decreed in research design that may endanger the animal in use? |

If all answers are "No", your research project may qualify for Expedited Review, go directly to Section XII. If answers of any of these questions is "YES", it is necessary to complete this form.

**Section IV: Funding / Support and Collaboration:**

**A) Project funding status:**

Sources of research funding (Full or Partial); Internal university funding (department or Deanship for Scientific Research) or external source funding (governmental agency, private sector or Charitable organization).

Mark the appropriate places with "√" (Include all that apply):

|  |  |  |
| --- | --- | --- |
| **Item** | **Grant Title and Fund #****(in case university funded)** | **Name of funding authority****(Internal/External)** |
| Funded by an external governmental source; Full [ ]  Partial [ ]   |  |  |
| Funded by an external nongovernmental source; Full [ ]  Partial [ ]  |  |  |
| Funded by an internal university source; Full [ ]  Partial [ ]  |  |  |
| Funding is under processing from an internal university [ ]  or external [ ]  source |  |  |
| Others: (Example: Covering costs for obtaining animals) |  |  |

**B - Collaboration:**

Will any manipulations of the project living animals be conducted outside the university premises? Yes — No — (if yes, continue completing the following):

1. Who is the owner of the animal(s)?
2. What is the nature of the intended collaboration; include details of the workplace and collaborators?
3. In case this collaboration is with external party and was previously bioethically approved, please attached a copy of the ethical approve with this from.

**Section V: A Brief Project Summary:**

A) Procedures and Specific Objectives: Explain how would the use of living animals help fulfilling your educational and/or research objectives, and, how would the project help advancing the biological and behavioral sciences for the improvement of human and animal health?

B) In case this project is a continuation of a previous work, briefly explain reasons for such additional research.

**Section VI: Request for the use of living animals:**

**A - Authorization/Approval:**

1. **Privately own Animals.** Will privately owned animals be used for research, educational or exhibition purposes? Yes (\_\_), No (\_\_). If yes, please name the owner party and attached the written approval of the use of the animals signed by the owner (use Form ACU-b).
2. **Publically owned Animals:** Will public-owned animals be used for research, educational or exhibition purposes? Yes (\_\_), No (\_\_). If yes, please name the owner party and attached the written approval of the use of the animals signed by the owner (use Form ACU-c).

**B - Information about the type of animals:**

**1. Species, Place and Source of the animals:** Please specify the species and strains of the animals:

|  |  |  |  |
| --- | --- | --- | --- |
| Species /Strain | Origin/Source of the animals | Number of animals required for the educational/research objectives | Place where animals will be accommodated (Building/Room). If animals will be free and not housed, write "Inapplicable".  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**2. Age and gender:** Specify the gender and approximate age of the animals to be used in the study - if possible - and specify whether mating animals, newborns, embryos, or hybrid animals will be used, and, whether there will be mating or artificial insemination.

**3. Animals with special requirements:** Does the animal in use have a phenotype that may predispose it to physical, behavioral or physiological pain and damage (e.g., susceptibility to a particular disease or inherent immune deficiency) or requires special precautions to be taken by human staffs in charge (e.g., prior vaccinations and cleaning precautions): Yes (\_\_) No (\_\_). If Yes, explain these specific requirements: …………………………………………………………….

**4. Genetically modified animals:** Will the project use genetically modified or cloned animals? Yes (\_\_), No (\_\_). If Yes, please Explain. ......................................................................

A) Was the cloning verified? An approved report/certificate signed by at least two specialists should be attached. Explain it ………………………………………………………...........

B) Will the genetic modification induce a disease condition or creates pain or damage to the animal? Yes (\_\_), No (\_\_). If Yes, please Explain the phenotype of these animals (Example being showing: Epilepsy or enlargement of limbs).

C) Make sure to fill and attach the required forms for the genetic modifications and appropriate tests for them.

**Section VII: Justifications for the use the animals at the number required:**

**A. Justification for the use of animals:**

1. Reasons and rationale behind the use of living vertebrates in this project.

2. Suitability of the selected species/strain.

Is it mandatory to use animals in the project to achieve the target objectives? Yes (\_\_), No (\_\_).

Are there alternatives to the use of animals in the project? Yes (\_\_), No (\_\_).

Will any of these alternatives be used? Yes (\_\_) No (\_\_)

Explain why these alternatives are unsuitable:...........................................................................

Does the research carried out on animals aim at achieving at least one of the following objectives?

|  |  |  |
| --- | --- | --- |
| **Prevention, diagnosis or treatment of a disease or a deformity that requires removal or correction** | **Yes** | **No** |
| Exploring the physiology/organ functions of animals  |  |  |
| Preservation of ecosystem and general health of human and animals |  |  |
| Achieving scientific progress in biological science |  |  |
| Contribution to criminal and judicial research |  |  |
| Improving methods for animal breeding and management  |  |  |
| Making basic investigation for pharmaceuticals, toxins and radioactivity |  |  |

What makes living vertebrates compulsory for this research project? Fill the table and mark all that apply with "√":

|  |  |  |
| --- | --- | --- |
| **No** | **Yes** | **Justifications for use** |
|  |  | Is the study too complex to be conducted on simpler models such as plants, insects or invertebrates?  |
|  |  | Is there enough information about the investigation that help conducting it in vitro? |
|  |  | Does the execution of the investigations in vitro or on parts of living organism not enough to extract the required information? (Example: Tissue culture for production of monoclonal antibodies and Computer modeling of protein structure)**.** |
|  |  | Are the pre-clinical studies necessary to be conducted on living vertebrates before trails on humans? |
|  |  | Does this study behavioral, educational, or evolutionary that require investigations on the complete system of a living organism? |
|  |  | Is this an ecological or field study? |
|  |  | Will animals be used for educational or descriptive purposes? |
|  |  | Other justifications: Please explain ………………………………………………….. |

The suitability of the Specified Species/Strain of the Animal: In the following table, explain reasons and rationale bases upon which Species/Strain of the Animal were specified in section V. Mark all that apply with " √ ".

|  |  |
| --- | --- |
| **√**  | **Species/Strain of the Animal:** …………………………... |
|  | The species/strain model is new and was not previous investigated.  |
|  | Extensive Data Bases for this species/strain are available that makes it easy to compare our results with previously reported data.  |
|  | The unique anatomy, genome, physiology, phenotype or behavior of this species/strain makes it most suitable for the hypothesized investigations  |
|  | This species/strain is a simple general/reproductive evolutionary model that makes it an easy anatomical model and supply for enough samples/tissues  |
|  | The investigations aim at solving health/husbandry problems specific to this species/strain.  |
|  | Others (Specify other reason for the selection of this species/strain): |

**B. Justification for the sample (number) size of animals used:**

Did you use the least enough number of animals? Yes (\_\_), No (\_\_).

On which bases did you determine the required number of animals for this study? Described all that apply. ……………………………………………………………………………………

Mark all that apply with **" √ "**; add more information whenever required.

|  |  |  |
| --- | --- | --- |
| **Reference/Source** | **√** | **Sample determination Methods** |
|  |  | A field study (Example: The study needs deploying equipments and baits to catch/follow the largest number of animals study their existing number and distribution.  |
| Organization Name: ……………….. |  | The specified sample size is recommended by a concerned governmental or non-governmental party/organization. |
| Reference: ……………………. |  | The sample size was determined on bases of a piolet study. |
| Reference: ……………………. |  | Sample size was based on reported studies by the principal investigator or others. |
| Name the equation(s): …………….. |  | Sample size was calculated using standard statistical equations.  |
| Name the software: ……………………… |  | Sample size was calculated using sample size calculation statistical software. |
| Attached the official biostatistician report. |  | Sample size was calculated by a Biostatistician |
| Number of Students: …………………… |  | The number of animals suites the number of students for the course training objectives (one animal/student, 2 animals/students, etc.). |
|  |  | Since the study is an animal production study, sample size reflects the production rate planned – although they will not be used directly, the study requires holding them. |
|  |  | This is a pilot study for succeeding studies. |
|  |  | The aforementioned methods do not apply, and the specified sample size is specified based on the best of the scientific professional knowledge of the principal investigator. |

Describe methods of sample size calculation in the form of a text to a simple table explaining samples and categories. In case of a field study with an opened number of participants, ignore this section.

Make sure that information (expressions and numbers) here are not conflicting with those in Section VIII.

**Study design must contain the following items:**

Elaborate description of the study design particularly for independent and dependent variables and analysis and statistical methods.

Justification for the use of the species/strain of animals, their age, etc.

Summary of the related previous reported.

**Section VIII: Animal Pain and Exhaustion:**

Explain all information concerning pain and the fatigue/exhaustion for each of the groups of animals used (including the reference normal controls) during the whole period spanning the experiments.

**A. Type of pain/fatigue:**

Describe the pain that the animal may suffer due to experimentation: mild pain (\_\_), moderate pain (\_\_), or severe pain (\_\_). Precisely specify the actual intensity of the pain and its consequences on the animal. Attached related previous reports. …………………………………………………

**B. Overall description of the pain and fatigue:**

Mark all that apply with **" √ "**; add more information whenever required.

|  |  |  |
| --- | --- | --- |
| **Explain all that apply** | **√** | **The procedure/practice** |
| All procedures are fully described in Section IX |  | Food/water deprivation and confinement of the animal:* Metabolic cages, securing in cages, covers and barriers, suspending, etc.
* Food and water deprivation, harmful stimulation, electric shock, environmental stresses, forced exercises, etc.
 |
| All procedures are fully described in Section IX |  | Invasive procedure for marking the animal:* Tattooing, fixation of marks, implantation of devices, cutting, fissuring or piercing the ear, amputating figures, biopsy from the tail, etc.
 |
| All procedures are fully described in Section IX**.** |  | Blood collection |
| Explain:All procedures are fully described in Section IX. |  | Injections: Drugs, chemicals, vaccination, human cells (stem/cancer cells), biological materials from another animal (stem/cancer cells), pathogenic infectious agents for human and animals and recombinant viral vehicles, etc.  |
| Explain:All procedures are fully described in Section IX. |  | Surgical Procedures:Fatal and nonfatal: Fatal continuous infusions, fatal major tissue sampling under anesthesia, fatal neurological procedures, minor and major surgical treatment procedures, etc.  |
| Explain:All procedures are fully described in Section IX. |  | Exposure: Exposing the animal or radiation/laser, biological and chemical toxins, etc. |
| Make sure that this was fully described in Section VI and contact the Committee for filling/submitting the required forms. |  | Genetically engineered/transgenic/knockout animals. |

**C. Pain and fatigue indicators and scoring:** For all procedure, including those listed above, specify the expected pain/fatigue indictors for animals used in this project, and, how would you watch and record them (Examples: Animal adaptation/acclimatization/training, anesthesia, canalization for frequent collection of blood, etc.). Explain: ……………………………………….

**D. Calming the animal and relieving pain:** For all procedure, including those listed above, specify how would you employ pain relief and calming approaches (Examples: Lower activity rate, loss of weight, abnormal gait or position, etc.). Explain: ……………………………………….

**E. In case you will not use anesthesia,** what is the reason for that? Explain: ……………………………………….

**Section IX: Procedures:**

Explain all procedures for each of the groups of animals used (including the reference normal controls) during the whole period spanning the experiments.

**A. Invasive procedures:**

1. Management of the Medical supplies: Is there are anesthesia, administration of drugs or other materials? Yes (), No (). If No, go to point 4. If Yes, describe name, dosage, route/way of administration, injection position, and any other related information: ………………………
2. Administration/use of non-pharmaceutical agents: Yes (\_\_), No (\_\_). If Yes, Explain: ………….
3. Administration/use of Controlled Drugs: Yes (\_\_), No (\_\_). If Yes, Explain: ………………
4. Blood collection: Is it a nonfatal procedure? Yes (\_\_), No (\_\_). If Yes, Explain: ………………
5. Tissue collection: Is it a nonfatal procedure? Yes (\_\_), No (\_\_). If Yes, Explain: ………………
6. Is there are surgical procedures? If Yes, Explain the procedure: ………………

**B. Objective Qualitative investigations:**

1. Does the project test behavior or experimenting methods for changing it? Yes (\_\_), No (\_\_). If Yes, make sure to describe in research methods and time schedule in Section VIII.
2. Do the procedures include food or water deprivation, shocks, or forceful stressors? Yes (\_\_), No (\_\_). If Yes, make sure to describe it in Section VIII.
3. Does the project include catching wild animals, sheltering, domesticating, watching, or identifying them? If Yes, make sure to cover this in the research methods and time schedule in Section VIII and submitted the appropriate licenses for such activities.
4. Does the objective project is educational or for exhibition? Yes (\_\_), No (\_\_). If Yes, make sure to cover this in the research methods and procedures in Section VIII

**C. Description of the procedures:**

Describe, in details, all procedures and manipulations carried out on the animals that enables the committee to comprehend what happens to them daily, from the very start of their arrival to the very end of the experiments. Do not repeat what you presented in the preceding sections.

**D. Place of the procedures:**

In the following table, specify the location where each procedure/manipulation will be done to the animal. Give all that apply of details and extra information. Mark all that apply with **" √ "**; add more information whenever required.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Duration of Stay\*** | **Room #** | **Building #** | **√** | **Type of Manipulation** |
|  |  |  |  | Non-surgical Manipulations (Other than accommodation) |
|  |  |  |  | Surgical Manipulations |
|  |  |  |  | Arousal Manipulations |
|  |  |  |  | Euthanasia/Mercy killing |
|  |  |  |  | Other: |

Are animals going to be out of the main accommodation facility for more than 12 hours? Specify the location and provide the reasons. …………………………………………………..

**E. Monitoring of the Research Investigations:**

1. How do the health of the animals be monitored? ………………………………………………

2. Who will monitor? …………………………………………..

3. Who will be in-charge of potential emergencies situations? …………………………………..

4. How communication will be conducted in cases of emergencies? …………………………..

5. What is the longest period of time during which the animals will not be monitored? ………………….

6. How long is the whole experimentation period? ……………………………………….

7. How long is the total stay period of the animals in the accommodation facility? …………………….

Based on the national bioethical regulations, the investigator must implement and submit information related to the following, whenever apply:

1. Regulation for the use of wild animals.
2. Regulations for transport of embryos.
3. Regulations for artificial insemination.
4. Regulations for the endangered species of animals.
5. Regulations for semen and ova biobanks.

**Section X: Housing, Management and Transportation of the Animals:**

Provide description for all that apply below:

**A. The animal House: Answer with "Yes or No" for each item of the following table.**

|  |  |  |
| --- | --- | --- |
| **No** | **Yes** |  |
|  |  | This manipulation does not apply since animals will be housed for any period of time during this project. |
|  |  | I am knowledgeable concerning the university housing regulations for animals used and I acknowledge implementing such regulations.  |
|  |  | The type of animal used required monitoring procedures that are not described in the university regulations. |
|  |  | The objectives of my investigations require adjustments to the university housing regulations. |

**B. Special housing requirements:**

1. In case the housing requirements are detailed in the university regulations, describe the special housing requirements and specify who will be in-charge of it. …………………………………..

2. In case your investigations require adjustments for the housing regulation (Example: Single housing, frequent changing of cages, food/water deprivation, special diet, sterile food, fastening, etc.), Explain the scientific rational for such manipulations: …………………………………………………………..

3. Are there manipulations during the investigations that would leave an effect on the physiology, body or behavior of the animal? Yes (\_\_), No (\_\_): If Yes, Explain the effect: ………………………………

4. Are there circumstances during the investigation where the animal requires monitoring/observation more than once daily? Or, it would require extra training for the animal care workers to be able to notice the expected change on the animal? Yes (\_\_), No (\_\_): If Yes, Explain the needs (Frequency of observation, special measures, the investigators themselves will monitor, etc.): ……………………………………

**C. Observation of the animals:**

Explain how animals will be monitored during the investigations (Example: Housing in marked cages, marking each animal with a device to enable its individual watching, animal ID cards, Camera/special devices, allocating human persons to watch, etc.): …………………………………………….

D. Animal Transportation:

Explain all that apply considering transportation of living animals in these investigations. This project requires transportation of living animals outside the housing facility: Yes (\_\_), No (\_\_): If Yes, complete the following table. Mark all that apply with **" √ "**.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **√** | **How would you control potential pollution, noise, and/or insure animal welfare during transportation?** | **Describe the transportation pathway** | **What method of transportation and in what type of caging?** | **Who is in-charge of the transportation?** |  |
|  |  |  |  |  | Transportation to outside the animal house (Example: to the lab.) within the university premises. |
|  |  |  |  |  | Transpiration outside the within the university premises or the region. |

This project does not need transporting animals outside the animal house. Explain: ……………………

**Section XI: Animal Disposal Control:**

**A. The final stage of the study. It is the stage where:**

* The animal is killed by Mercy Killing by ways that stop the heart and respiration.
* Transfer of the animal by his owner to another place (e.g., selling it or slaughtering it at the slaughter house).
* Release of the animal into its wild natural habitat (As the case in field studies).

1. The final stage related to the experiment: What is the final stage specified in the project protocol? There may be more than one stage, describe all of them:……………………………………..

2.The final stage related to animal welfare: What are the conditions upon which you decide to early withdraw the animal from experimentation (e.g., changes in the behaviour, veterinary consultation, etc.)? such as loss of weight, exhaustion, trauma/edema/cancer, etc. For field studies, describe how injuries during catching wild animals for the study will be treated: ……………………………………..

3.Safe disposal of the animal: Will the disposal be done before arousal from anaesthesia at the end of experimentation that causes necessary extreme pain and/or disfiguring? Is the approach going to implement the Islamic regulations related to animal welfare? Yes (\_\_), No (\_\_), explain: ……………….

**B. Ending experimentation through ways other than Mercy Killing:** Is the animal alive at the end of the experiment? Yes (\_\_), No (\_\_). If Yes, specify in the following table what will be done (Mark all that apply with **" √ "**).

|  |  |  |
| --- | --- | --- |
| **Notes** | **√** | **Experiment closure by ways other than Mercy Killing** |
| Total number of animals: ……….. |  | This is a filed study that does not secure animals, or, that will release animals into their natural habitat (for wild animals only). |
| Total number of animals: ………..What is the other project's #? ………. |  | Animals will be transferred to another approved study for the same principal investigator. |
| Total number of animals: ………..Who is the other investigator? ……..What is the other project's #? ………. |  | Animals will be transferred to another approved study for anther principal investigator in the university. |
| Total number of animals: ………..To where they will be transferred? ………… |  | Animals will be transferred to another approved study for anther principal investigator outside the university. |
| Total number of animals: ……….. |  | Animals will be transferred to education purposes within the university. |
| Describe the details: ………………….. |  | Others: |

**C. Mercy Killing:**

Compete this section to explain methods for mercy killing, sample collection, and cadaver disposal. (In case the study does not end by mercy killing or approvals prohibit mercy killing, ignore this section and go to Section XII).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Other Information** | **√** | **Dosage and frequency of injection** | **Name The chemical and its route of administration (i/v, i/m, subcut., etc.)** | **The animal will be used for unrelated purpose (e.g., humanitarian uses)** | **Describe the final stage of the study (e.g., collection of samples from the brain)** | **Type of animals** | **The killing method**  |
| 1. Chemical mercy killing:
 |
|  |  |  |  |  |  |  | Excess dose of injection anesthetics |
|  |  |  | Suffocation by CO2 inhalation room |  |  |  | Suffocation with CO2 from a CO2 cylinder/tank |
|  |  |  |  |  |  |  | Excess dose of inhalation anesthetics |
|  |  |  |  |  |  |  | Excess dose of narcotics |
|  |  |  |  |  |  |  | Others: |
| 1. Mercy killing combine with physical manipulation:
 |
|  |  |  |  |  |  |  | Severing the neck under anesthesia |
|  |  |  |  |  |  |  | Severing the head under anesthesia |
|  |  |  |  |  |  |  | Bleeding under anesthesia |
|  |  |  |  |  |  |  | Others: Specify |

* 1. Reasons for using physical mercy killing: Explain ……………………………….
	2. How the animal death be confirmed? Explain ………………………………
	3. The safe and hygienic methods for disposal of the remains of the animal: Explain …………..
		1. Are the tissue or body fluids of the animal contaminated with chemicals, biological agents or radioactive substance that toxic, reactive or infective? Yes (\_\_), No (\_\_). If Yes, Explain ………………………
		2. Are you going to collected tissues or body fluids from the killed animal? Yes (\_\_), No (\_\_). If Yes, Explain ………………………

**Section XII: Occupational Health and Safety Measures:**

**Risks due to the use of animals in researches:** The principal investigator is responsible for taking all the measures that minimize the exposure of humans to physical, chemical, environmental, biological and radiation risks during the experimentation period. All persons are mandated to register for the online workshop for bioethics and occupational health for using animals in research (Certificate) and be informed that they may be exposed to allergens from fur, feather, skin scrapings of the animal and its excreta. All persons working in the research project should take all biosafety measures and go through the related training offered by concerned parties or offered by the principal investigator himself.

**A. Physical Risks:**

1. Do the investigations expose persons involved to risks of biting, scratching, stinging, kicking, etc.? Yes (\_\_), NO (\_\_), if Yes, explain and describe measures taken to deal with these risks: ………………………….

2. Do the investigations expose persons involved to risks of needle puncture, falling, trauma, or other physical risk? Yes (\_\_), NO (\_\_), if Yes, explain and describe measures taken to deal with these risks: ………………………….

3. Do the investigations expose persons involved to industrial or occupational hazards (e.g., load noise, risky machines, lifting heavy weights, etc.)? Yes (\_\_), NO (\_\_), if Yes, explain and describe measures taken to deal with these risks: ………………………….

**B. Chemical risks:**

1. Do the investigations expose the principal investigator or other persons to chemical hazards (e.g., exposure to formaldehyde and other chemical preservatives, cleaning chemicals, insecticides, solvents, drugs with known effects and drugs with unknown effects, volatiles, gases, explosives, etc.)? Yes (\_\_), NO (\_\_), if Yes, explain and describe measures taken to deal with these risks: ………………………….

2. Do the investigations expose the works in the animal house to chemical hazards (e.g., exposure to formaldehyde and other chemical preservatives, cleaning chemicals, insecticides, solvents, drugs with known effects and drugs with unknown effects, volatiles, gases, explosives, etc.)? Yes (\_\_), NO (\_\_), if Yes, explain and describe measures taken to deal with these risks: ………………………….

**C. Biological Risks:**

Do the investigations expose involved persons to biological hazards (e.g., infectious agents, biological toxins, zoonotic diseases, human biological materials, recombinant DNA, etc.)? Yes (\_\_), NO (\_\_), if Yes, explain and describe measures taken to deal with these risks: ………………………….

**D. Radiation Risks:**

Do the investigations expose involved persons to radiation hazards (e.g., ionizing radiations, X-rays, radioactive isotopes, radiation contaminated cell or animals, lasers, microelectromagnetic wave, etc.)? You must apply for certification for the use of these modalities and get the required training of their use. Yes (\_\_), NO (\_\_), if Yes, explain and describe measures taken to deal with these risks: ………………………….

**E. Disposal of the remains of the investigations:**

Do the remains (e.g., animal manures, animal cadavers, samples leftover, polluted surgical disposables, chemicals, radioactive isotope, etc.) of investigations require special arrangements for disposal? Yes (\_\_), NO (\_\_), if Yes, explain and describe measures taken to deal with these risks: ………………………….

**Section XIII: Responsibilities of the Principal Investigator and Signature:**

I hereby ratify for the correctness and accurateness of information mentioned in this request, pledge to implement the university regulation for animal use in research, and, agree to:

1. Comply with all regulations, preconditions, requirements, and, decisions of the Permanent Committee for Bioethics.
2. Acknowledge that the study was designed with full knowledge of the animal welfare regulations including the related university regulations.
3. Obtain the committee approval for any change in the previously approved research plan.
4. Notify the committee for any unexpected problems, emergencies, or events that happen during the study that may endanger people, animals' or public health.
5. Submit a follow up report after 6 months and submit a final report at the end of the study.
6. Acknowledge that all participations in this study do not violate the university regulation for conflict of interest.
7. Acknowledge that all participants in this study are informed for procedures described in the research plan and had the required training and experience suitable for their role in the study. They completed the online workshop for the use of animals in research.
8. Acknowledge that I have all facilities and resources required for accomplishing this study.

|  |  |  |
| --- | --- | --- |
| **Name of the Principal Investigator** | **Signature** | **Date** |
|  |  |  |
| **Name of the Student Investigator (in case Principal Investigator is a student)** | **Signature** | **Date** |
|  |  |  |

**Section XIV: Approval of the Head/Coordinator of the Department/Center:**

|  |  |  |
| --- | --- | --- |
| **Name of Head/Coordinator of the Department/Center** | **Signature** | **Date** |
|  |  |  |

**Instruction for completing the Form (4)**

This form contains all basic items concerned with care and use of living animals in research that implement the concerned regulations (Rules of Bioethics of Research on Living Creatures - Article 38) employed by the Committee of Bioethics, and, applies the Islamic and international regulations related to care and use of living animals in research.

**Article 38:**

1. It is allowable to use living animals in experimental and scientific research providing that the animal does suffer unusual pain.
2. Limit animal use to researches that cannot achieve its objectives without this use.
3. The negative use of endangered animals is prohibited.

**Important: The checklist for filling this form:**

* Review the forms and instructions stated in the homepage of the committee on the online university gate and fill a softcopy of the form for submission.
* Carefully read each item and prove correct and accurate information as requested.
* Notice the importance of answering; Yes/No and complete the requested information whenever apply. Replace the space (\_\_) with mark "√" beside the chosen answer.
* Hand filled forms are not acceptable.
* Do not modify or omit any of the parts of the form that apply or do apply to your study.

Contact the committee in case you need any help - LCBE@JU.EDU.SA

**Sections of the Form (4) are:**

Section I: Information about the Submitted Research Application:

Section II: Personal and Communication Information of the principal Investigator and research associates:

Section III: Approval type and assessment method for this research:

Section IV: Funding / Support and Collaboration:

Section V: A Brief Project Summary:

Section VI: A Request for the use of living animals:

Section VII: Justifications for the use the animals at the number required:

Section VIII: Animal pain and the fatigue:

Section IX: Procedures:

Section X: Housing, Management and Transportation of the animals:

Section XI: Animal Disposal Controls:

Section XII: Occupational Health and Safety Measures:

Section XIII: Responsibilities of the Principal Investigator and Signature:

Section XIV: Approval of the Head/Coordinator of the Department/Center: