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**R7b**

**RESEARCH ETHICS APPLICATION FOR RESEARCH OR STUDIES USING ANIMALS UNDER CATEGORIES C2 AND C3**

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| **INSTRUCTIONS**   * The application must be typed. * This form must be submitted with a R7a. |

1. **PROTOCOL**

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| **Project Information** (mark applicable answer with **X**) | | | | | | | | | | | | | | | | | | | | | | |
| **New Study** | | | |  | | | | | **Extension of Approved Project** | | | | | | | | | |  | | | |
| **Source of funding for the study** | | | | | | | |  | | | | | | | | | | | | | | |
| **Expected starting date** | | | |  | | | | **Expected completion date** | | | | | | | | | |  | | | | |
| **Brief justification**  Provide a brief statement of no more than 500 words, supported by relevant scientific literature, explaining what problems, questions, needs, scientific or clinical observations, or new ideas have led to the planning of the experiment. | | | | | | | | | | | | | | | | | | | | | | |
| **Repetition of experimental procedures**  Is this experiment a repetition of previous work performed by the applicant or others? If yes, please give details and explain why it is being repeated. | | | | | | | | | | | | | | | | | | | | | | |
| **Scientific Aim(s) of the proposed study/teaching activity**  (state these briefly and succinctly) | | | | | | | | | | | | | | | | | | | | | | |
| **Potential benefits of the research findings/teaching activity**  (These are required to aid the reviewing committee in performing a harm/benefit assessment.) | | | | | | | | | | | | | | | | | | | | | | |
| **Hypothesis/ Research Question**  If a hypothesis is being tested, give the postulate(s) (null hypothesis and alternates) to aid the reviewers in following the rationale of the proposed study. | | | | | | | | | | | | | | | | | | | | | | |
| **7. Animals required for protocol:**   * Please list the animals required in the table below. Add as many rows as required. * Where applicable, provide proof of the owner’s consent. * In the case where animals that were subjects in a previous study or teaching activity are going to be used, identify these clearly, justify their re-use, and include details of the previous experience.) | | | | | | | | | | | | | | | | | | | | | | |
| **Species** | | **Strain** | | | **Gender** | | **Age/Body Mass** | | | | | **Number required** | | | | **Microbial Status** | | | | | **Source** | |
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| Animal re-use: | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Justification for the use of sentient animals**   Briefly justify:   * the use of animals, * the choice of species, * the numbers to be used and * if limited availability or large numbers are to be used, provide additional rationale for their selection and numbers.   State also which non-animal model(s) were considered and on what grounds they were rejected. | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Reduction of the number of animals to a minimum to achieve the scientific objective**   Describe how this was determined either by calculation (statistical design) or by specification (i.e. use of a validated testing protocol) or any other strategy. | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Refinement**   Please describe the specific steps that have been taken to refine the experimental procedures to make them as humane as possible, i.e., reducing the number of animals and the severity of the experimental treatments on the animals. | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Experimental design**   Describe:   * how the animals will be allocated to experimental and control groups, * how the experimental treatments will be assigned to each group, * data to be collected | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Experimental procedure(s)**   (Describe briefly in short annotated sentences and in sequence all the steps that will be performed in conducting the proposed experiment | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Animal caging, care and monitoring**  * Briefly describe how the animals will be caged and what provisions have been made for the physical and psychological wellbeing | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Animal transport**   Should it be necessary to transport any animals during the duration of the study, please indicate   * how the animals will be transported, | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Severity of effects of the experimental procedure on the animals**  * List the procedures that may cause deprivation, fear, distress and pain and describe what sensations the animal may feel in the table below. (Add additional rows if necessary.) | | | | | | | | | | | | | | | | | | | | | | |
| **Procedure** | | **Anticipated sensation** | | | **Category** | | | | | **Duration** | | | **Steps to be taken** | | | | | | | **Anticipated effectiveness** | | |
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| Justification: | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Humane endpoints**  * Describe how humane endpoints will be implemented. | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Ultimate fate of the animals.**  * If this information has not been given earlier in this application, briefly state * What the fate (rehabilitation and release, return to stock, euthanasia) of the group of experimental animals is to be at the end of the study. | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Administration of medicinal substances**  * List **all** substances to be administered to the animals. (Please note that only registered vets can prescribe schedule 4-7 substances) | | | | | | | | | | | | | | | | | | | | | | |
| **Substance** | **Route** | | | | | **Dosage/body mass** | | | | | **Frequency** | | | | **Monitoring** | | | | | | | **Responsible person** |
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| **Responsible person** | | |  | | | | | | | | **Qualification(s)** | | | | | |  | | | | | |
| **Acceptance Signature** | | |  | | | | | | | | **Date** | | |  | | | | | | | | |
| **Responsible person** | | |  | | | | | | | | **Qualification(s)** | | | | | |  | | | | | |
| **Acceptance Signature** | | |  | | | | | | | | **Date** | | |  | | | | | | | | |
| 1. **Occupational Health and Safety**  * Does the project pose any hazards to other animals and/or staff, including allergic reactions? * If it does, state the specific safety procedures to be adopted to contain these hazards and measures in place to treat affected persons or animals. | | | | | | | | | | | | | | | | | | | | | | |
| 1. **Monitoring during fieldwork**   Describe how animals will be monitored and which records will be kept as proof of monitoring. | | | | | | | | | | | | | | | | | | | | | | |

1. **DECLARATION**

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| **Moral philosophy**  The ethical review of proposed animal experiments is predicated upon the university's acceptance that non-human animals are organisms fully worthy of moral concern and that, as such, their interests must be protected as far as possible in their use to advance biological knowledge, promote the health and welfare of animals and humans, and protect the environment.  **Animal interests**  In the use of animals for research, teaching and testing, animal interests obligate scientists and educators to:   * Not allow animals to be used for research and/or to be killed for trivial, irrational, unjustified or inappropriate reasons. * Permit animals to live, reproduce and grow under conditions that are comfortable and reasonably natural to their species. * Keep animals free from disease, parasitism, injury and pain by prevention, rapid diagnosis and treatment. * allow animals to be able to express normal behaviour through providing as far as possible sufficient space, proper facilities in which to live and in the company of the animal’s own kind, recognising the inherently social nature and hence the necessity of a social relationship for many species. * Protect animals from fear, deprivation, stress, distress and pain by ensuring that their living conditions, handling and treatment will be such that it will either minimise or eliminate the causation of these states upon those animals which are used for research, teaching and testing. * Not unnecessarily repeat animal experiments the outcome of which are already known or are predictable.   **Humaneness**  All animal research conducted under the auspices of this university should uphold the "Four R" principles for humane animal research, namely:  These comprise:   * **Replacement** of so-called "sentient" animals wherever possible with "non-sentient" research models or systems to eliminate the use of animals that can experience unpleasant sensations. * **Reduction** of the numbers of animals in experiments by design strategies that facilitate use of the smallest number that will allow valid information to be obtained from the study. * **Refinement** of animal sourcing, animal care practices and experimental procedures to eliminate physical and psychological distress within the limitations imposed by the objectives of the research. * **Responsibility** where individuals or institutions involved in any aspect of the care and use of animals for scientific purposes should be aware of and accept their responsibilities and act following local and international accepted standards. |

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| **Animal protection**  Animals should be protected from research designs which involve pain, illness, isolation, mutilation (whether by surgery or otherwise) and/or premature death until such research can be demonstrated to be imperative and related to health, welfare and environmental problems which are potentially catastrophic in nature and for which alternative designs using non-sentient systems are not feasible.  **Relevance**  Animal-based teaching and research must address an important question relevant to the University’s objectives in advancing knowledge, education, science and human and animal welfare through research, be based on a plausible hypothesis and have a reasonable prospect of yielding good results.  **Responsibility**  Everyone using animals, whether for experimentation, testing diagnosis, teaching or sourcing of tissues or body fluids is responsible in their personal capacity for assuring that the animals which they use are afforded the highest levels of welfare and protection from abuse, and violations of the interests accorded to them.  **Personal Declaration**   * 1. I, (full name) ………………….……………………………….., as Principal Investigator in this application, hereby declare that I am familiar with the precepts, policies and responsibilities outlined above, that I am familiar with the minimum standards for the care and use of animals for scientific purposes   …………………………………..……………… ……………..…………………..  **Signature of applicant Date** |

1. **SIGNATURES**

**Project Leader**

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Name and Surname Signature Date

**Other researchers involved in this project:**

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Name and Surname Signature Date

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Name and Surname Signature Date

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Name and Surname Signature Date

**Project supervisor** *(Applicable for Student Projects)*

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Name and Surname Signature Date

**Research Ethics Committee resolution:**

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| **Approved** |  |
| **Not Approved** |  |

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Name and Surname Signature Date

Chairperson, REC