**Exemption Review**

**Faculty of Science, Mahidol University–Institutional Animal Care and Use Committee (MUSC–IACUC)**

**COVER SHEET**

**1. Overview**

This section will be completed by MUSC–IACUC



**2. Protocol title:** *Including type of animal to be used in the protocol title*

(Thai)

(English)

If applicable,

2.1 This protocol is a part of the **main research project** entitled

(Thai)

(English)

2.2 Principal investigator of the **main research project**

Name

Degree Position

Affiliation

**3. Principal investigator of the submitted protocol:** *For a student thesis, principal investigator is the principal adviser, and student is a co-investigator*

Name

Degree Position

Affiliation

Telephone Email

Animal use license number (*issued by Institute of Animal for Scientific Purposes Development, NRCT*) Expired date

**4. Co-investigators of the submitted protocol**

**4.1 Co-investigators directly involved with animals**

4.1.1 Name

Degree Position

Affiliation

Telephone Email

Animal use license number Expired date

4.1.2 Name

Degree Position

Affiliation

Telephone Email

Animal use license number Expired date

**4.2 Co-investigators NOT directly involved with animals**

4.2.1 Name

Degree Position

Affiliation

Telephone Email

4.2.2 Name

Degree Position

Affiliation

Telephone Email

**5. Designated contact person in case of an emergency**

Name

Affiliation

Mobile phone Email

**6. Designated contact person for protocol writing inquiries**

Name

Affiliation

Mobile phone Email

Have you previously attended the annual protocol writing training organized by MUSC-IACUC?

□ No, □ Yes, *specify the most recent year of attendance*

**7. Type of animal protocol**

□ Research in the field of

□ Testing or monitoring, specify

□ Teaching, specify (course, class)

□ Animal breeding, specify (species, strain, genotype)

□ Other, specify

**8. Anticipated protocol period:** *Approximate date at least 2 months after protocol submission*

from to

**9. Funding**

□ Received from

Funding period from to

□ To be requested from

Funding period from to

□ Other, specify

**10. Payment method**

□ Payment from Department of

□ Payment from Research grant, specify details of invoice

□ Other, specify

**11. Signatures:** *Include all investigators*

*Your signature as Principal investigator/Co-investigator on this application verifies that the information herein is true and correct and that you are familiar with and will comply with standard of animal care and use established under the ethical guidelines and policies of the Mahidol University and Office of the National Research Council of Thailand (NRCT) and the Animal for Scientific Purpose Act., B.E. 2558.*

Principal investigator Date

 ( )

Co-investigator Date

 ( )

Co-investigator Date

 ( )

Head of Department Date

 ( )

Faculty/Institute

**This section will be completed by MUSC–IACUC**

Statistical review Date

 (Suntaree Unhapipat, Ph.D.)

Safety review Date

 (Nattapon Panupinthu, M.D., Ph.D.)

Veterinary review Date

 (Napawan Hirunwiroj, D.V.M., M.M.)

 Animal use license no. U1-08176-2562 Expired date 6/10/2027

 Veterinary practitioner license no. 01-12817/2561 Expired date 18/07/2028

**12. Approval**

MUSC–IACUC review: □ Approved

 □ Approval recommended

 □ Disapproved

MUSC–IACUC Chair Date

 (Professor Emeritus Dr. Nateetip Krishnamra)

**BODY OF PROTOCOL**

**1. Non-technical summary:** *Provide a brief, only one A4 page, and simplified description of the project expressing its significance, methods (especially when involving animals), needs for the use of animals and potential benefits of the study.*

**2. Background and rationale:** *Provide a brief literature review of background information leading to the rationale of the study with a list of references cited.*

**3. Objective(s):** *Provide goal/specific aim of this project.*

**4. Potential benefits of the study:** *Explain how the study is important to human or animal health and the advancement of knowledge*

**5. Experimental design:** *Provide a complete description of what will be done to the animals or how specimens are collected and/or processed. Briefly outline the plan and flow of experimentation with sequential description of procedures. Diagram(s) or flow chart(s) may help to explain complex design.*

**6. Data analysis and statistical method:** *List the statistical test(s) planned or describe the strategy intended to evaluate the data.*

**7. Literature search for duplication:** *This search must be performed to prevent unnecessary duplication of previous experiments.*

7.1 Literature source(s) searched (*database name*)

7.2 Date of literature search (must be within six months prior to submission date)

7.3 Period of search (*range of years searched*)

7.4 Key words used in search

7.5 Results of search (*provide a narrative description of the results of the literature search*)

**8. Description and source of samples or specimens**

8.1 From previously approved protocol: *Provide detail of the source protocol.*

8.1.1 Protocol title

(Thai)

(English)

8.1.2 Protocol number

8.1.3 Description of animal source of sample

8.2 From wildlife: Provide permission documents in case the study sites are in the protected area, or the subject animal complied with Wildlife Preservation and Protection Act B.E.2562, specify study sites

8.3 From other sources, specify

8.4 Transportation of samples/specimen to the laboratory, check all that apply

□ Transport in a closed container, specify

Duration of transportation

□ Transport in a temperature-controlled container, specify

Duration of transportation

□ Other, specify

Duration of transportation

8.5 Provide estimation of sample size using statistical analysis or descriptive explanation for the number of samples to be used

8.6 Provide description of samples in Table below

|  |  |  |  |
| --- | --- | --- | --- |
| **Animal** | **Genus and Species** | **Sample/Organ/Specimen** | **Number of samples** **to be used in this protocol** |
|  |  |  |  |
|  |  |  |  |

**9. Disposal of sample/specimen**

**10. Occupational health and safety**

10.1 Select types of hazards associated with this protocol, also provide name, source and amount to be used in each category

□ Cancer cell lines

□ Human or animal products

□ Hazardous chemicals (e.g., carcinogen, mutagen and teratogen)

□ Infectious agents

□ Radiation equipment and radioactive elements

□ Recombination agents

□ Other, specify

□ None

10.2 Specify biosafety level: □ ABSL-1 □ ABSL-2

10.3 Explain any safety precaution or program designed to protect personnel from biohazard and any surveillance procedure in place to monitor potential exposure.

10.4 Explain how the waste is decontaminated and disposed.

10.5 List primary safety equipment and personnel protective equipment requirements.

10.6 List the procedures and initial treatment provisions in the event of injury, illness, or accidental exposure.

10.7 List relevant occupational health or medical support available in case of injury, illness, or accidental exposure.

**11. Qualification of personnel:** *List PI and all co-investigators who will be* ***directly*** *involved with animals in this submitted protocol*

|  |  |  |
| --- | --- | --- |
| **Name** | **Responsibility** | **Relevant experience and qualification** |
|  |  |  |
|  |  |  |
|  |  |  |

Principal investigator Date

 ( )