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| **Module 10: Hazardous Chemical Use in Live Animals** |

**Instructions:**

1. Please complete all sections of this document as instructed. See resources and web links at end of this document.
2. A **separate Module 10** is needed for **each chemical agent**.
3. Please attach a copy of the Material Safety Data Sheet (MSDS) for this chemical to this registration.
4. Submit the completed Module 10 (signed) to IACUC Office. It is acceptable to submit the IACUC protocol (with Module 10 included) in advance of safety review and approval. However, the IACUC will not grant approval for the use of hazardous chemicals in animals until safety approval is confirmed.
5. The approved IACUC protocol (including all safety info and MSDS) must be maintained on file in the facility. These materials must be read and understood by all personnel involved in hazardous chemical use.

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| **A. Project Information** | |
| Principal Investigator (PI) for Animal Project: |  |
| Faculty/Staff Title: |  |
| Dept./Section/Company: |  |
| E-mail address: |  |
| Office Phone: |  |
| Fax #: |  |
| Lab Phone: |  |
| Emergency contact #: |  |
| Personnel using hazardous chemicals in live animals: |  |
| Animal Study Title: |  |

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| **B. Chemical Information** | |
| Hazardous chemical name (and useful synonyms): |  |
| Chemical Abstracts Service (CAS) Registry Number: |  |
| Nature of the chemical hazard (e.g., carcinogen, mutagen, neurotoxin, hepatotoxin, etc.): |  |
| Chemical source (e.g., Sigma): |  |
| Quantity of chemical to be purchased: |  |
| Location of chemical storage (room number): |  |
| Storage precautions to be applied: |  |
| Site where chemical will be prepared for animal dosing: |  |
| Precautions used in preparing chemical for dosing: |  |
| Precautions used for chemical transport within institution: |  |

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| **C. Chemical Dosing Procedures** | |
| Animal species to be dosed: |  |
| Number of animals to be dosed with chemical: |  |
| Route of administration (e.g., PO, IP, SC, topical, etc.): |  |
| Amount of chemical per dose:: |  |
| Number of doses administered per animal: |  |
| Dosing frequency: |  |
| Work site (room #) where animals will be dosed: |  |
| Precautions used during animal dosing (e.g., equipment, garb): |  |
| Disposal method/site for items used during dosing (e.g., syringes, needles, etc.): |  |
| Dosing site cleanup procedures: |  |
| Fate of unused chemical stocks: |  |
| Half-life of chemical in animal after dosing: |  |

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| **D. Animal Care following Chemical Dosing** | |
| Proposed site (room #) of animal housing after dosing: |  |
| Period (maximum duration) animal(s) will be kept following chemical dosing: |  |
| Type of caging to be used for animal housing after dosing: |  |
| Special care considerations for animal(s) after dosing: |  |
| Procedures performed on live animal(s) after dosing (e.g., blood sampling, tumor measurement, fecal collection, etc.): |  |
| Safety precautions to be taken during above animal procedures: |  |
| Anticipated effect of chemical on animal(s): |  |

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| **E. Chemical Metabolism and Excretion** | | |
| Will the metabolism &/or excretion of the hazardous chemical (or its metabolites) pose a risk to persons handling or caring for the animal(s) after dosing?  (insert **X** in appropriate box below) | | |
| **Yes** | **No** | If “**yes**,” please complete the remainder of Section E.  If “**no**,” please proceed to Section F. |
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| Specify the **names** and anticipated **quantities** of potentially hazardous chemical products from animals following dosing: | | |
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| Specify the **route(s)** of hazardous chemical excretion from the animal (e.g., urine, feces, expired air, saliva, etc.): | | |
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| Indicate the **safety precautions** that are warranted for the handling of dosed animals and their waste materials (used bedding, dirty cages, etc.): | | |
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| Specify the person(s) who will perform each of the potentially hazardous procedures listed above: | | |
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| Outline **emergency procedures** in the event of overt personnel exposure (inhalation, ingestion or inoculation), a spill, or environmental contamination: | | |
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| **F. End-of-Study Considerations** | |
| Disposal site and method for used animal **bedding**: |  |
| Disposal site and method for used animal **caging**: |  |
| Site where animal(s) will undergo **euthanasia** at end of study: |  |
| Animal **procedures** performed in association with euthanasia (e.g., blood collection, etc.): |  |
| Disposal site and method for animal **carcass**: |  |

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| **G. Investigator's Statement** | |
| I hereby assert the following:   * The information I have supplied above is a complete and accurate description of all procedures involving the use of a hazardous chemical/carcinogen in animals for this project. * I agree that any **changes** in the use of hazardous chemicals in live animals will be submitted to the Institutional Animal Care and Use Committee (IACUC) and to the Biosafety Committee for review and approval prior to being instituted. * I agree to notify the IACUC and Biosafety Committee promptly of any **problems** relating to animal or chemical use that arise during the conduct of this study. * I assure that **all personnel** under my direction will be appropriately **trained** prior to handling animals and hazardous chemicals in accordance with institutional policy. * I agree to abide by the **safety policies** of this institution. | |
| **Signature of Principal Investigator**  ▼ | **Date**  ▼ |
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| **H. Safety Committee Review** | |
| The chemical information and safety plans described in this protocol are appropriate for the proposed studies. | |
| **Signature of Safety Officer/Chairperson**  ▼ | **Date**  ▼ |
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References:

Chemical Abstract Service <http://www.cas.org/>

Vermont Safety Information Resources, Inc. (SIRI) <http://hazard.com/msds/index.php>

Sigma-Aldrich <http://www.sigmaaldrich.com/Area_of_Interest/The_Americas/United_States.html>

MSDS online <http://www.ilpi.com/msds/index.html>

Chem Industry <http://www.chemindustry.com/chemicals/index.asp?=search>

Oxford University <http://physchem.ox.ac.uk/MSDS/#MSDS>