

IACUC USE ONLY: IACUC Number 07-021 Date received: \_\_\_\_\_  
Date Reviewed: \_\_\_\_\_ Date approve \_\_\_\_\_  
IACUC chair \_\_\_\_\_ Veterinarian \_\_\_\_\_ Signed by PI \_\_\_\_\_

## SYRACUSE UNIVERSITY FORM FOR THE USE OF ANIMAL PRODUCTS IN RESEARCH OR TEACHING

### Instructions:

1. This protocol form is to be used when a research or teaching protocol requires the use of animal products e.g. *post mortem* material (tissue specimen) from an abattoir, from an other investigator, or from a commercial source. This includes fresh, fixed, or frozen specimens.
2. This form must not be used for any live vertebrate animal material. A "LIVE VERTEBRATE ANIMAL USE PROTOCOL REVIEW FORM" must be completed.
3. Copies of this form are available on the Internet at the following address:  
<http://orip.syr.edu/humanresearch.php>
4. There are now stringent regulations governing the shipping of biological materials. Principle Investigators must assure that those regulations are complied with the Environmental Health Office, (3-2447) can advise you if you need help. Questions can be addressed to the LAR Office (3-3013), EHO, or the Chair of the IACUC.
5. If you need to edit the content of this form or connect to a hyperlink, you must unprotect it. To unprotect the document:
  - a. Browse to **View->Toolbars->Forms**. The Forms toolbar will pop up.
  - b. Click on the padlock icon on the right side. This will unlock the form.
  - c. Make sure to protect the document (click on padlock) again when you need to click on a checkbox.

1. Principal Investigator/Faculty member/Course Instructor: Liviu Movileanu  
Department: Physics  
Work Telephone: 315-443-8070  
Where will work be done: SU Physics Bldg
2. Title of Protocol: Rabbit Blood Cell Membrane Preparation
3. Is this project for teaching? No  
If yes check one: Graduate  Undergraduate   
List course number(s):
4. Is this project for research? Yes
5. Funding Source: SU start-up funds  
Grant Number:
6. Proposed Use Period: 10/25/07-10/25/10

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7. Species:Rabbit

8. Nature of Material:    Tissues             Organs             Blood             Carcasses   
Other, please specify:

9. Source of Material:

- a. Another investigator at Syracuse University (name)  
Their IACUC Protocol number
- b. An investigator from another institution  
*Attach a copy of the approval document from that institution's IACUC*
- c. Abattoir  
Slaughterhouse materials must be obtained from a USDA inspected facility.
- d. Other sources Charles River Laboratories or Hemostat Laboratories  
Must be an approved commercial supplier or an accredited organization such as major zoo.

10. Method of Specimen Collection (briefly explain):

Purchase from Charles River Laboratories or from Hemostat Laboratories both USDA licensed

11. Method of Specimen Transport (briefly explain): Will the material be fresh, fixed, or frozen?

Fresh rabbit blood transported from Charles River Laboratories or Hemostat Laboratories to Syracuse University via Fed EX/Airborne

12. Method of Specimen Disposal (briefly explain)-must be in compliance with S.U. Health and Safety Regulations:

The supernatant samples (see attached protocol) will be transferred from their appropriate containers (centrifuge tube, etc.) to a labeled glass beaker containing a 5% bleach solution. (Note: 5% bleach solutions will be made fresh each time prior to working with the agent).

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After a 30 minute incubation, the sample and 5% bleach solution will be pH neutralized according to the EHO waste disposal protocol. Neutralized samples will be disposed of via the sink located in the fume hood in B103/B105.

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13. Abstract: Use non-technical terms to explain the overall purpose of this study or class.

The purpose of this study is to utilize rabbit red blood cell membranes necessary for oligomerization of channel proteins. Oligomerization is the process of converting a monomer (a small molecule that joins with other small molecules to form a chain molecule called a polymer) or a mixture of monomers into an oligomer (a simple polymer containing a small number of repeating units). A channel protein is a protein forming an aqueous pore spanning the lipid (lipids are substances such as a fat, oil or wax that dissolve in alcohol but not in water) bilayer of the cell membrane which when open allows certain solutes to traverse the membrane.

14. Risks to Personnel: What are the potential animal-related hazards to people entering or working in your laboratory facility What effortst will be made to minimize or eliminate the risk to these people? Examples of issues to be dealt with include containment/removal of allergens and pathogens, and use of temporary/permanent areas.

The work will be carried out in a restricted area (fume hoods). The personnel will be equipped with protective gloves and lab coats.

Signature of Principle Investigator:	
Date:	01/09/07