

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 21-R-0080
CUSTOMER NUMBER: 449

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

N Y Institute For Basic Research In D D
1050 Forest Hill Road
Staten Island, NY 10314

KB

Telephone: (718) -494-0600

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3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Attached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reas such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	31	31
8. Rabbits	0	39	0	0	39
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	0	0	0	0	0
13. Other Animals					

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rest teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and ap Institutional Animal Care and Use Committee (IACUC). **A summary of all such exceptions is attached to this annual report.** In addition to identifying the IACUC-approved exceptions, this summary int brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

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(b)(6), (b)(7)c

DATE SIGNED

10/23/07

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Registration #21-R-0080

Hamsters used by [REDACTED] for Scrapie Research (Category E)

[REDACTED] used 31 hamsters in experiments on scrapie research. The nature of these experiments included pathogenesis studies, genetic analyses, bioassays and production of high titer material for biochemical analyses. In some of these studies, particularly the bioassays and production of high titer material, animals stay until clinical disease is established with certainty. The human counterparts of scrapie include Creutzfeldt-Jakob disease and Gerstmann-Straussler syndrome. These diseases are characterized by dementia and ataxia. There is no indication that pain or stress is associated with the clinical symptoms.

We require animals for scrapie work because there is no other way to bioassay for scrapie infectivity and because the yields from tissue culture systems are too low to provide sufficient material for biochemical or molecular biological studies. Furthermore, except for a few studies on neurotransmitters, tissue culture systems cannot be used for pathogenesis or genetic studies or for the production of large quantities of infectious agent. For this reason we require the use of laboratory animals.

The incubation period in scrapie and associated diseases is long, with most of the period asymptomatic. In our studies we assess the health status of animals on a weekly basis from approximately 60% through the incubation period to the conclusion of the experiment. In bioassays, most genetic studies and production of high titer material we must be certain that animals are positive for disease. We establish positivity by observing two consecutive positive scores for hamsters. Animals are euthanized within a few days of the final positive score. This ensures that the only demonstrable clinical changes are ataxia, inactivity, and in some cases, somnolence.

It is not clear whether affected hamsters feel pain or distress. If these do occur, any attempts to alleviate pain or distress would interfere with our capacity to determine if the animals are positive for disease.

NOTE: It should be noted that none of these animals were acquired from October 1, 2006, to September 30, 2007. During the year, the animals listed were sacrificed so that presently there are no hamsters in the Animal Colony. No additional hamsters will be obtained for these protocols during this year.