UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 14-R-0021

CUSTOMER NUMBER: 118

FORM APPROVED OMB NO. 0579-0036 N

## ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Northeastern University 12 Mugar Life Sciences Bldg 360 Huntington Ave Boston, MA 02115

Telephone: (617) -373-3958

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 Atached 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 ye used for such purposes.	C. Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use or 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 whithe use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F.  TOTAL NUMBER OF ANIMALS  ( COLUMNS C + D + E )
4. Dogs					
5. Cats					
6. Guinea Pigs					<u> </u>
7. Hamsters		545	180		725
8. Rabbits			64		64
9. Non-human Primates					
10. Sheep					<u> </u>
11. Pigs					<u> </u>
12. Other Farm Animals					
13. Other Animals					
Sugar Glider			2		2
					<u> </u>

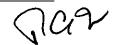
## ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rese teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered afternatives 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 incoming 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)

b6, b7c

DATE SIGNED





## Institutional Animal Care and Use Committee

12 Mugar Life Sciences Building Northeastern University 360 Huntington Avenue Boston, Massachusetts 02115-5000 Phone: 617.373.3958 Fax: 617.373.3959

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October 27, 2008

## Exceptions to the Animal Welfare Act approved by the IACUC at Northeastern University 14-R-0021

The IACUC has approved exceptions to the AWA on three protocols for one Principal Investitator. The PI has been allowed to go up to 10 days on one protocol and 18 days on two other protocols between cage changes of singly housed hamsters. This was approved for housing hamsters in light-tight ventilated chambers to alter light dark cycles, and to expose them to various lengths and intensities of light and darkness.

The hamsters are housed in wheel running cages for circadian rhythm experiments. The PI feels that a cage change during an animal's free running period in constant conditions induced activity can cause a phase shift or period change in its activity rhythm. In many experiments, phase and period are the critical measurements and the timing of a cage change is essential so that the research data is not impacted. This PI has also been given permission to house hamsters in constant dim light to measure the free running times of the hamsters in the absence of external rhythmic factors, i.e. light cycles. A rhythmic light dark cycle will not allow for this information to be gathered. Every effort is made to design experiments to accommodate frequent cage changes, but occasionally a cage will be not be changed for a period of 18 days.