

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

*AB*

**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 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					
5. Cats					
6. Guinea Pigs					
7. Hamsters		545	180		725
8. Rabbits			64		64
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Sugar Glider			2		2

**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 research, 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 an 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 includes a 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 )

b6, b7c

DATE SIGNED

11/27/08

NOV 01 2008

*QCA*



**Northeastern**  
U N I V E R S I T Y

**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

NOV 01 2008

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 Investigator. 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.