

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)	1. CERTIFICATE NUMBER: 51-R-0025 CUSTOMER NUMBER: 91	FORM APPROVED OMB NO. 0579-0036
University Of Maryland College Park Director Laboratory Animal Care College Park Campus College Park, MD 20742 Telephone: (b)(6), (b)(7)c		

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 pain or distress to the animals 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 which 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 reason 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					
8. Rabbits	2	18			18
9. Non-human Primates					
10. Sheep	24	47			47
11. Pigs					
12. Other Farm Animals					
Goats		2			2
13. Other Animals					
Horses		8			8
Ferrets	1	26	15	127	168
Bats	72	48	11	0	59

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, 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)	
 (b)(6), (b)(7)c	DATE SIGNED 11/10/08

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Column E Explanation

This form is intended as an aid to completing the column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: 51R-0025
2. Number 127 of animals used in this study.
3. Species (common name) Ferrets of animals used in the study.
4. Explain the procedure producing pain and /or distress.

The studies are to look at various genetic variants of influenza viruses as per their pathogenicity & transmissibility. Ferrets were infected intranasally with either a variant of an avian influenza virus or a human influenza virus.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see item 6 below.)

The infections in the ferret model are used to mimic human infection and clinical symptoms. The ferrets are fed water and food ad libitum and all experiments performed to date have involved low pathogenic influenza strains that cause mild infections and lead to 100% recovery. No symptoms or signs were observed in animals that were tested using the avian virus. However, clinical signs such as fever, mild weight loss, lethargy and congestion/mucous around the nose were observed when the human virus was tested. The symptoms were mild and lasted 3 to 5 days with full recovery. We can not treat with medication because we need to follow the course of infection so that we can relate the study to a human case.

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e. g., APHIS, 9CFR 113.102):

Agency _____ CFR _____