

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)	1. CERTIFICATE NUMBER: 93-R-0434 CUSTOMER NUMBER: 9193 University Of California Irvine (b)(2)High, (b)(7)f Telephone: (949) -824-5085	FORM APPROVED OMB NO. 0579-0036
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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 reasc such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs		32			32
5. Cats			190		190
6. Guinea Pigs	16		178		194 178
7. Hamsters			56		56
8. Rabbits		249	265	13	527
9. Non-human Primates					
10. Sheep					
11. Pigs			230		
12. Other Farm Animals					
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 rese: 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 app: 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 in: 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)

SIGNAT	(b)(6), (b)(7)c	(b)(6), (b)(7)c	DATE SIGNED	11/4/05
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Column E Explanation

COPY

1. USDA Registration number: 93-R-0434 / Customer Number: 9193
2. Number of animals in Category E: 13
3. Species (common name): Rabbits
4. Explain the procedure producing pain and/or distress:

The rabbit eye is inoculated with *Herpes simplex, type 1*, (herpetic eye disease). This animal model studies the processes regulating the latency and recrudescence of ocular herpes infections. Human patients with ocular herpes infections rarely report pain, but rather some patients report discomfort. It is thought that this infection is generally pain free because the viral infection damages nerve endings of the cornea resulting in loss of sensation. However, a small minority of infected rabbits (<5%) show signs of irritation and may scratch at the skin around the orbit. In addition <1% of infected rabbits may progress on to further complications such as encephalitis and seizures. Such rabbits are euthanized immediately.
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.

Treatment of the ocular infections was considered, and non-treatment was approved by the IACUC based on the following rationale:

 - Although animals transiently develop clinical signs of disease (conjunctivitis, iritis and keratitis, etc.) the condition does not appear painful to the majority of study subjects (see above); assessment of pain and distress was performed by veterinary personnel;
 - Topical drugs in the eye would interfere with the experimental infection and adversely affect the study results. Such treatment may actually enhance the infection than ameliorate it. In particular, the ability to accurately measure the amount of virus (the major experimental outcome) in the eye at different time points after infection would be compromised by standard medical therapies.
 - Review of laboratory records concerning this model. Over the preceding three years (performed here and at another institution), this laboratory has used >1500 rabbits in similar research and <1% of the animals required euthanasia due to complications from the viral infection.
 - Alternative searches using USDA approved databases were performed that validated the rabbit model and failed to identify alternative methodology or practices that would allow therapeutic intervention.
6. What, if any, federal regulations require this procedure?
Not applicable

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