NOV 2 6 2003

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21

See attached form for additional information.

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 14-F-0009
CUSTOMER NUMBER: 463

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

U.S.D.A./Human Nutrition Res. Ctr. At Tufts U
711 Washington Street
Boston, MA 02111

Telephone: (617) -556-3200

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 animals 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 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, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals a the reasons such drugs were not used must be attached this report).	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters		37	492		529
8. Rabbits			2		2
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Mice	3,363	3,199	1,479	279	4,957
Rats	662	183	398		581
Ferrets		70	121		191

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestatic, 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 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 inc 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)

SIG	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		11-10-03

APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)
(AUG 91)

Jean Mayer
United States Department of Agriculture
Human Nutrition Research Center on Aging
At Tufts University

RO-17

Nutritional Immunology Laboratory

October 15, 2001

To: Animal Care and Use Committee, HNRCA

From: S Nm

Re: Category E animals in Amendment to Protocol MS-31

The major limiting factor in conducting our study is the large number of animals needed to collect sufficient number of macrophages for our experiments. This inherent difficulty can be overcome by intraperitoneal injection of thioglycollate (TG) which elicits recruitment of macrophages to peritoneal cavity. TG is a widely used stimulatory agent which induces non-infectious acute peritoneal inflammation in mice and rats. Administration of TG has been shown to increase the total number of macrophages up to four-fold, which will reduce the number of animals necessary for addressing our specific aims.

A number of recent studies have successfully demonstrated that TG-elicited macrophages can be used in the study of some gene expression and signal transduction. However, the feasibility of using TG-elicited macrophages to study COX-2 gene expression is not known.

To test this, we need to inject TG intraperitoneally to mice three days before they are euthanized by CO_2 asphyxiation for macrophage collection. Peritoneal injection will cause discomfort and moderate pain in mice, which unfortunately can not be alleviated. Thus we have classified the animals under category E.

711 Washington Street
Boston, Massachusetts 02111
FAX: (617) 556-3344

To: Animal Care and Use Committee

From: PI of WA-1 Protocol

RE: Justification of Category E in WA-1 Protocol: Effects of Combined Chemopreventive Agents (9-cis retinoic acid, celecoxib, and 1,25(OH)$_2$ vitamin D$_3$) Against NNK-induced Lung Carcinogenesis in AJ Mice

Protocol WA-1 will include USDA Category E research in which some experimental animal groups will experience pain and/or distress without alleviation. This letter will verify a lack of alternative methods and assure the committee that the proposed research does not unnecessarily duplicate previous experiments.

We propose to conduct an *in vivo* intervention study to investigate the effectiveness of 9-cis retinoic acid, 1,25(OH)$_2$ vitamin D3, and a COX-2 inhibitor drug alone and in combination as anti-carcinogenic agents in the AJ mouse model of lung cancer. Lung tumors in strain A/J mice resemble human lung adenocarcinoma and have become the preferred test system to study this form of cancer. The target of chemoprevention is premalignant lung disease, making animal models essential for evaluating the efficacy of compounds and interactions in the suppression of tumor progression. Because symptoms rarely occur in the early stages of human lung cancer and many of these early cancers go undiagnosed, mice genetically predisposed to this form of cancer allow us to study lung cancer chemoprevention over the course of months and with fewer animals than similar studies with human subjects. The induction of lung tumors in AJ mice progresses through several distinct stages similar to the stages of human lung cancer. In both mice and humans, adenocarcinomas progress to adenomas and ultimately carcinomas. Further, tumor initiation by a tobacco-derived carcinogen, 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK), in AJ mice is characterized by premalignant legions containing a gene alteration that is also present in some human cancers. This makes the AJ mouse an ideal model in which to study lung cancer chemopreventative agents that may be of benefit to the human population. Although we cannot alleviate tumor formation in the NNK-injected control group, the treatment group using combined chemopreventive agents should alleviate tumor formation/distress/animal pain.

While mechanistic hypotheses and data from cellular studies suggest that combinations of vitamins and anti-inflammatory drugs may be effective in lung cancer chemoprevention, there is a clear lack of *in vivo* work in this area. This will be the first study to examine vitamin A and vitamin D interactions in an animal model of lung cancer and the first study to combine these vitamins with a COX-2 inhibitor to examine synergistic effects. If successful, this study could lead to new approaches in cancer chemoprevention, utilizing combinations of chemopreventive vitamins and drugs in smaller and less toxic doses, thereby avoiding the side effects commonly seen in early clinical trials testing single agents. This research cannot be done using cell models as results cannot be applied to *in vivo* tumorigenesis.

TO: The HNRC Animal Care and Use Committee
FROM: NEPS Laboratory

RE: Justification of Category E in protocol RO-17, "Roles of TNF and interleukin-1 in stress-induced cachexia: Effects of age in transgenic mice"

Our protocol RO-17 addresses the question of whether the cytokines involved in cachexia are the same as sarcopenia (namely TNF, IL-1, and IL-6). This line of research pertains to the mission of the NEPS laboratory, ie, the understanding and alleviation of physiological or pathological processes leading to sarcopenia, wasting and cachexia.

In RO-17, turpentine will be delivered subcutaneously in one of the hind limbs of wild type and IGF-I transgenic mice. Unfortunately, turpentine injection, although not lethal, results in a sterile abscess that cause pain. This pain is comparable to that felt by humans with a thigh abscess. We anticipate the abscess to be maximal 16 days after injection, and to gradually shrink thereafter. Unfortunately, the pain will not be alleviated by pain killers, as these drugs may induce changes in the levels of muscle cytokines, one of the major endpoints of this study. Because sub-clinical inflammation is a recognized feature of human aging, the proposed experiments are germane to the issue of age-related changes in protein catabolism, inflammation, and immune responses.

NOV 2 6 2003

Jean Mayer
United States Department of Agriculture
Human Nutrition Research Center on Aging
At Tufts University

November 10, 2003

Elizabeth Goldentyer, D.V.M.
Regional Director - Animal Care
APHIS, Eastern Regional Office
920 Main Campus Drive, Suite 200
Raleigh, NC 27606-5213
Reference: USDA Annual Report (Registration No.: 14-F-0009)

Dear Dr. Goldentyer:

The enclosed documents represent the U.S.D.A. Human Nutrition Research Center on Aging at Tufts University's (HNRCA) "Annual Report of Research Facilities" for the Federal fiscal year, October 1, 2002 through September 30, 2003. Aspects of this report that require comment are:

1) Animals reported under Category E:

a) Mild non-infectious peritoneal inflammation was induced in sixty-one (61) mice by the intraperitoneal injection of thioglycollate to increase the total number of peritoneal macrophages available (which reduced the number of animals used) for peritoneal macrophage harvest. The letter of justification for category E research was submitted with the IACUC animal protocol and is attached.

b) Lung tumors were induced in one hundred one (101) mice to examine the combined synergistic effects of vitamin A, vitamin D and COX-2 inhibitors to evaluate their role in lung cancer chemoprevention. The letter of justification for category E research was submitted with the IACUC animal protocol and is attached.

c) Sarcopenia was induced in one hundred fifteen (115) mice by the subcutaneous injection of sterile turpentine into the hind limbs of the mice to evaluate if the cytokines involved in cachexia are the same as those of sarcopenia (namely TNF, IL-1 and IL-6) in an effort to understand and potentially alleviate the physiological or pathological processes leading to sarcopenia, wasting and cachexia. The letter of justification for category E research was submitted with the IACUC animal protocol and is attached.

Should you have any questions regarding the report, please do not hesitate to contact me.

711 Washington Street
Boston, Massachusetts 02111
FAX: (617) 556-3344

"A" by R. Riemann [illegible] 12/09/04

This report is required by law (7 USC 21 43) Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150. Cust # 1209

See reverse side for additional information

Interagency Report Control No 0180-DOA-AN T. THOMPSON

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO. 84-F-0001

FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code)
USDA,APHIS,WS,NWRC
4101 LAPORTE AVE.
FT. COLLINS, CO 80521

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

COPY FOR YOUR INFORMATION

FACILITY LOCATIONS (Sites)

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (*An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report*)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits	24	34	0	0	34
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
Goats	21	23	0	0	23
13 Other Animals					
Coyotes	28	77	16	35	128
Norway Rats	0	7	0	0	7
Deer Mice	18	24	0	0	24

ASSURANCE STATEMENTS

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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 approved by the 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)
I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		10/28/04

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88) which is obsolete

NOV - 4 20

This report is required by law (7 USC 2143) Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150

Set reverse side for additional information

Interagency Report Control No 0580-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 84-F-0001

FORM APPROVED
OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code)

USDA, APHIS, WS, NWRC
4101 LAPORTE AVE.
FT. COLLINS, CO 80521

COPY FOR YOUR INFORMATION

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 — 12. &/OR 13. Other (List by species)	B. Number of animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in those animals and the reasons such drugs were not used must be attached to this report)*	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
Ground Squirrels	0	30	0	0	30
Fox Squirrels	0	13	0	0	13
Skunks	0	33	0	0	33
Raccoons	0	67	0	0	67
Mountain Beaver	19	32	0	5	37
Stream Beaver	19	22	0	0	22
White Tail Deer	13	15	0	0	15
Black Tail Deer	90	57	0	0	57
Voles	60	0	0	0	0
Porcupine	3	0	0	0	0
Pocket Gophers	5	0	0	0	0
Mongoose	0	6	0	0	6

ASSURANCE STATEMENTS

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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL *(Type or Print)*	DATE SIGNED
		10/28/04

APHIS FORM 7023A
(AUG 91)

NOV - 4 2004

Column E Explanation

1. Registration Number:

2. Number of animals used in this study: 35

3. Species (common name) of animals used in study: *Canis latrans* (coyote)

4. Explain procedure producing pain and/or distress:

Animals were fed or gavaged with suspensions containing mixtures of caffeine and theobromine to evaluate the potential of these substances as selective predacides. Dose vs. Response (percent mortality) curves for three mixtures (13:1 (theo:caf), 5:1 (theo:caf), 100% theo) are being constructed from the toxicity testing data.

5. Provide justification why pain or distress could not be relieved. State method or means used to determine that pain and/or distress relief would interfere with test results.

QA-1064 "Development of a Natural, Safe and Effective Plant Based Predator Toxicant" was designed to evaluate the potential of methylxanthines (theobromine, caffeine) as a selective predator toxicant. With experimental toxicants, it is difficult to predict pain or distress experienced by the animals dosed. Administration of other substances (analgesics, etc.) prior to symptoms of intoxication might confound the pharmacological action of the methyxanthine test substances and lead to erroneous conclusions and ideally would be avoided until necessary. Although listed as a Category E study, the protocol permitted the attending veterinarian to administer analgesics, anesthetics and/or euthanasia in instances where the animals were determined to be in pain or distress.

6. What, if any federal regulations require this procedure?

Agency: none CFR: none

Column E explanation for QA 1118

Registration Number: 84-F-0001
Number of animals used: 5
Species (common name): Mountain Beaver

Several attempts have been made to reduce damage by decreasing mountain beaver (*Aplodontia rufa)* populations through the use of conibear-traps. This type of lethal control is becoming politically less popular, as indicated by the passage of Initiative 713 in 2000 (RCW 77.15 section 3) which banned the use of all body gripping traps in the state of Washington. Therefore, alternative tools to conibear traps for reducing mountain beaver populations may be desirable. At present there are no toxicant registered for use to control mountain beaver. A previous study (QA- 885) showed that chlorophacinone was the only underground bait that was 100% effective and readily consumed by mountain beaver. LiphaTech currently holds a chlorophacinone label in the form of paraffinized pellets. These pellets are delivered in bags to prevent weather damage. Another recent study (QA 1072) conducted in the Olympia Field Station habitat pens, showed that mountain beaver cached bags. Using LiphaTech's delivery system might reduce primary hazards as mountain beaver can cache baits inside their nests.

Ten mountain beaver served as subjects. Animals were given a minimum of 2-4 weeks to adapt to pen and burrow system. After adaptation period was over, the bait was placed in a trash can (76 l) in each of the pens. Each container has a 10cm diameter hole at the bottom to allow access and to mimic the rodent's natural burrow system. Five of the animals received a 12 oz bag of 0.005% chlorophacinone, while the other 5 animals were used as control and given no bait only bags with plain oats. Bait formulation for each treatment was presented as paraffinized pellets. The status of animals was monitored at 2-hour intervals for the first 6 hours, then again every 24 hour for the next 28 days. As administering sedatives or analgesics could affect the toxicity of the chlorophacinone baits, no drugs were administered until acute toxicity was imminent. Animals were frequently monitored to minimize any potential suffering until the completion of the study. Any animal that demonstrated severe symptoms (e.g., convulsions, comatose) of poisoning were euthanatized immediately.

This is a preliminary study to determine if the LiphaTech product might be applicable to a field application. EPA regulations require that for final registration of a product that 70% efficacy with death as an end point be demonstrated. Since this data will support registration we therefore followed EPA regulations with a few modifications to account for a different species (Standard rat anticoagulant place pack dry bait laboratory methods, Guideline #1.217).

October 25, 2004

NWRC, FY 2004
Aphis Form 7023, attch #1

Locations where animals in this report were used and/or housed:

USDA, APHIS, WS, NWRC
4101 LaPorte Avenue
Fort Collins, CO 80521

USDA, APHIS, WS, NWRC
Olympia Field Station
9730-B Lathrop Industrial Drive SW
Olympia, WA 98512

USDA, APHIS, WS, NWRC
Logan Field Station
4200 S 600 E
Cache County Road
Millville, UT 84326

USDA, APHIS, WS, NWRC
Hawaii Field Station
PO Box 10880
Hilo, HI 96721

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

DEC 1 0 2003

See reverse side for additional information.

Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO.
82-V-001

FORM APPROVED
OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, include Zip Code)*

Department of Veterans Affairs
VACO
810 Vermont Avenue NW
Washington, DC 20420

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

FACILITY LOCATIONS *(Sites)*

531 VA Medical Center
500 West Fort Street
Boise, ID 83702

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

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7. Hamsters					
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9. Non-human Primates					
10. Sheep		26			26
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

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

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	DATE SIGNED
	10/27/03

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

PART 1 - HEADQUARTERS

This report is required by law (7 USC 2143) Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

DEC 07 2004

See reverse side for additional information.

Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO.
82-V-001

FORM APPROVED
OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, include Zip Code)*

Department of Veterans Affairs
VACO
810 Vermont Avenue NW
Washington, DC 20420

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

FACILITY LOCATIONS *(Sites)*

531 VA Medical Center
500 West Fort Street
Boise, ID 83702

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

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4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits	23	17		1	18
9. Non-human Primates					
10. Sheep			35		35
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Rats	12	18	78		96
Mice		22		76	98

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.

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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)
I certify that the above is true, correct, and complete (7 U S C Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL *(Type or Print)*	DATE SIGNED
		11/10/04

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

DEC 13 2004

PART 2 – SECTOR OFFICE

Investigator:

Protocol #: OLS-0014B

Justification of Category E Animals

The category E rabbits were injected with anthracyclines chronically and they may develop congestive heart failure over a 10-week period. Use of anxiolytic agents or stress reducing drugs such as barbiturates or benzodiazepenes may induce or inhibit microsomal liver metabolism or displace anthracyclines from plasma protein stores thereby altering the pharmacokinetics of anthracyclines. Such an effect may interfere with the experimental outcome. The drugs may have direct effects on the proteins of the heart being studied and interfere with the results of the study.

1 rabbits

DEC 13 2004

Harvey McKelvey

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information. 12-09

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

"A" Ivy R. Bedenour 02/15/05

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO. 82-V-001 Cust # 1314

FORM APPROVED
OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

Department of Veterans Affairs
VACO
810 Vermont Avenue NW
Washington, DC 20420

208-336-5100 (WDC)
208-422-1000 (Boise)
208 422-1100 15
#for MC Director

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

FACILITY LOCATIONS (Sites)

531 VA Medical Center
500 West Fort Street
Boise, ID 83702

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs				COPY FOR YOUR INFORMATION	
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits	23	17		1	18
9. Non-human Primates					
10. Sheep			35		35
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Rats	12	13	73		86
Mice		22		76	98

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate 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 approved by the 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 HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
I certify that the above is true, correct, and complete (7 U.S.C Section 2143)

DEC - 1 2004

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		11/10/04

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88), which is obsolete)

PART 3 - FACILITY

Amt #1 13/4
Rqst #
82-V-0001

Investigator:

Protocol #: OLS-0014B

Justification of Category E Animals

The category E rabbits were injected with anthracyclines chronically and they may develop congestive heart failure over a 10-week period. Use of anxiolytic agents or stress reducing drugs such as barbiturates or benzodiazepenes may induce or inhibit microsomal liver metabolism or displace anthracyclines from plasma protein stores thereby altering the pharmacokinetics of anthracyclines. Such an effect may interfere with the experimental outcome. The drugs may have direct effects on the proteins of the heart being studied and interfere with the results of the study

1 rabbits

Additional information requested for Block E of APHIS Form 7023, dated February 3, 2005

The rabbit involved in this study was injected with anthracyclines or their analogs twice a week for eight weeks. Heart function was assessed by echocardiography.**The rabbit was euthanized when fractional shortening was reduced to less than 25% or twenty weeks after the first anthracycline injection.** The heart was then removed for further study.

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150. See reverse side for additional information. Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO.
93-V-007

FORM APPROVED
OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, include Zip Code)*

Department of Veterans Affairs
810 Vermont Ave, N.W.
Washington, DC 20420

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

FACILITY LOCATIONS *(Sites)*

#600 - VA Long Beach Healthcare System
5901 E 7th Street
Long Beach, CA 90822

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits			94		94
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Rats	62	688	927	552	2229
Mice	27	468	24	11	530

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate 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 approved by the 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 HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer
I certify that the above is

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

DATE SIGNED
10/24/03

APHIS FORM 7023
(AUG 91)

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

PART 1 - HEADQUARTERS

Explanation of Category E:

Rabbits

PI: Haake
Protocols: 0011-178
04044-02
Number of animals under Category E: 28
Procedures involving rabbits fall into Category E because of immunization with adjuvant, which is required for adequate B cell production. Rabbits are sedated with acepromazine 0.25-0.5 mg/kg SC or IM given 10-15 minutes prior to immunization.

PI: Ohning
Protocol: 01002-03
Number of animals under Category E: 4
The reason that procedures involving rabbits fall into category E is because of immunization with adjuvant, which is required for an adequate antibody response. Rabbits are sedated with acepromazine 0.25-0.5 mg/kg SC or IM given 10-15 minutes prior to immunization.

Rats

PI: Mayer
Protocols: 99064-04 (VA project # 0041)
11091-02 (VA project # 0055)
Number of animals under Category E: 443
The rats listed under USDA Category E were subjected to Water Avoidance stress and Colorectal Distension as described in protocols entitled "Modulation of the Pain Response to Repetitive Colorectal Distention" (VA project # 0041), "Influence of choronic water avoidance stress on visceral sensitivity in rats" (VA project # 0055). Water Avoidance causes no harm to the animals, but does cause them discomfort (psychological stress), which is a necessary part of the protocol. Colorectal distension does cause brief pain, however the stimulus is of a very short duration (20 seconds) and is also used in humans. This response cannot be elicited in anesthetized animals. Because the investigator is studying the analgesic effect of different drugs, the use of other analgesics would confound the results and interpretation of the study. None of the rats used during this time interval exhibited signs of excessive or prolonged pain (agitation, vocalization or bleeding during or following testing), which would have necessitated immediate euthanasia.

PI: Sattin/Pekary
Number of animals under Category E: 25
25 rats were categorized under Category E for the VA merit review study because the forced swim test is considered psychologically painful. These rats cannot be anesthetized because they would drown during the forced swim test.

PI: Tache
Protocol: 06069-02
Number of animals under Category E: 30
A colorectal distention model is used in rats. The study addresses the role of stress and CRF in the genesis and/or maintenance of lower gut motor function alteration and visceral hypersensitivity/pain symptoms. The distention process is unavoidable because the visceral pain response to distention needs to be compared to the response observed after the test substance administration. Because anesthesia will block the abdominal contraction response to distention and because the effect of potential analgesics is studied, the use of anesthesia or other analgesics will confound the data and their interpretation. Thus the pain response to colorectal distention is studied without prior analgesia.

PI: Wasterlain
VA Merit Review # 9711-041
NIH/UCLA grant # 12105-02
Number of animals under Category E: 423
The rats were placed in Category E because they undergo a period of seizures which are not treated during that time. While humans who have had similar seizures do not report pain there may be some distress. The rats are not treated during the seizure period because it is the mechanism of brain damage due to untreated seizures which is being studied in order to develop better treatment.

PI: Yang
VA protocol # 06068-02,
UCLA ARC # 2002-032-02
Number of animals under Category E: 10
The rats were used to study the effect of energy deficiency on brain neuronal activation. The rats were fasted for 48 hours and then were euthanized.

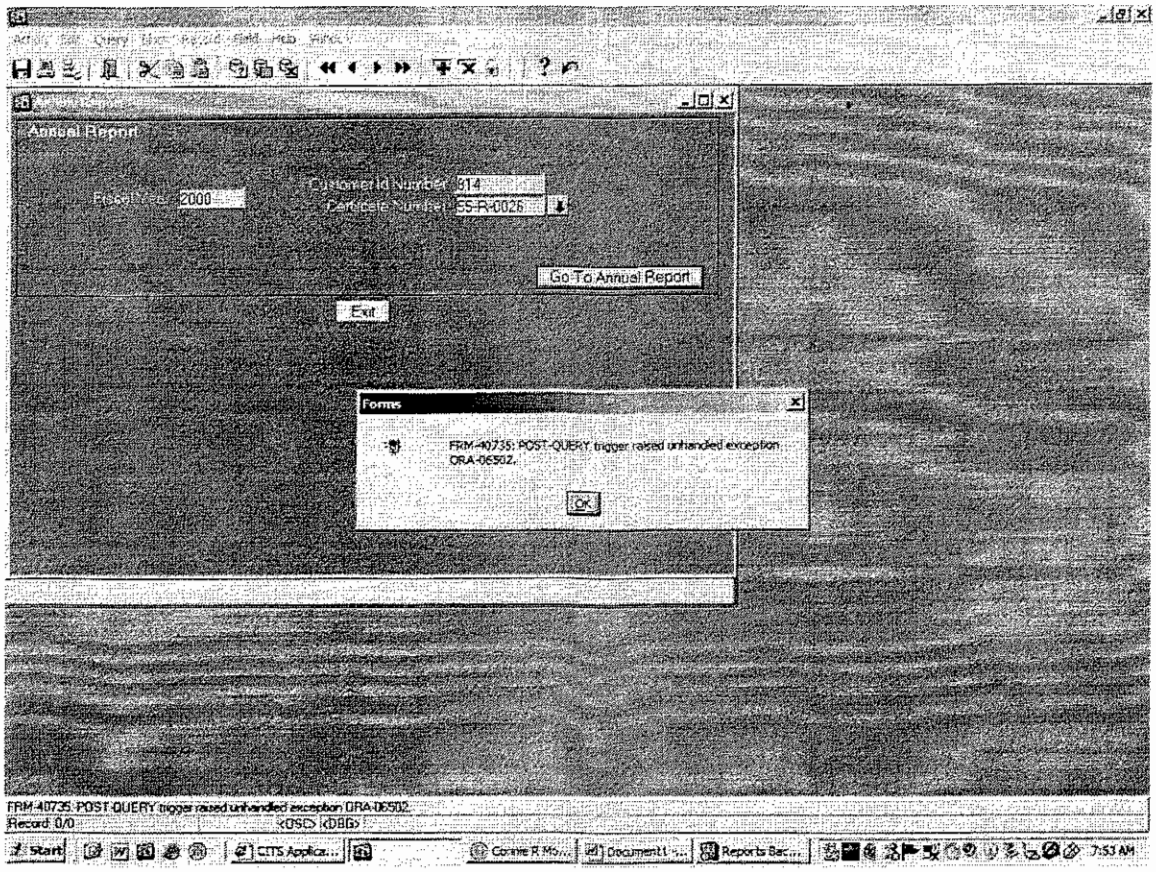
Mice

PI: Haake
Protocol #: 04044-02
Number of animals under Category E: 24
Procedures involving 24 mice fall into Category E because of immunization with adjuvant, which is required for adequate B cell production.

PI: Mayer
Protocol: 03030-02 (VA project # 0052)
Number of animals under Category E: 13
The mice listed under Category E were subjected to chemical stimulation of the colon as described in protocol entitled "Modulation of stress-induced pain response in mice" (VA project # 0052). The end point of the chemical stimulation of the colon is significant pain

and discomfort that cannot be alleviated by analgesic since the aim of the study is to investigate pain behavior.

PI: Pandol
Protocols: 0111-42
01008-02
Number of animals under Category E: 40
40 mice are listed under Category E for Protocols # 0111-042 and # 01008-02. In the mouse model of experimental pancreatitis (#0111-042), high doses of cerulein (an analogue of CCK), given as intraperitoneal ourly injections, cause acute pancreatitis. In Protocol # 01008-02 the animals receive either intraperitoneal injections of cerulein or vehicle every hour for 7 hours.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Fiscal Year: 2000
Customer Id Number: 314
Candidate Number: SS-R-0026
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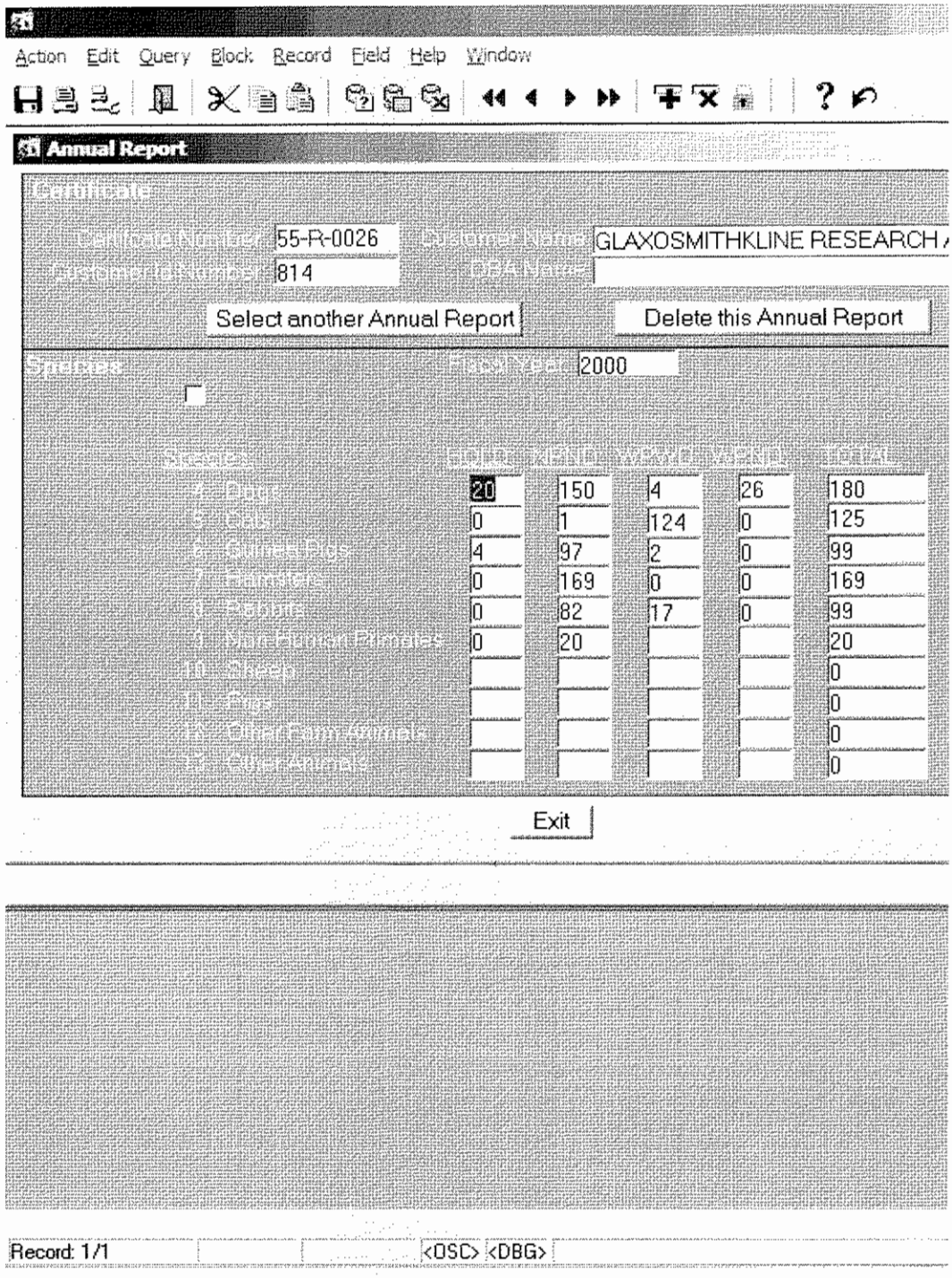
Connie R Morris/CO/APHIS/USDA
04/10/2008 09:20 AM

To Teresa D Simpson/MD/APHIS/USDA@USDA
cc
bcc
Subject Annual report for 2000, 55-R-0026 ok?



This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No. 0190-0004-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 55-R-003 982

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, Include Zip Code)*

VA Medical Center
508 Fulton St.
Durham, N.C. 27705

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

FACILITY LOCATIONS *(Sites)*

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	1		(7) +6		13
5. Cats			(12) + 31		43
6. Guinea Pigs					
7. Hamsters					
8. Rabbits			(4) + 2		6
9. Non-human Primates				(4)	4
10. Sheep					
11. Pigs					
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 research, teaching, testing, surgery, or experimentation were followed by this research facility.

2). Each principal investigator has considered alternatives to painful procedures ( ) indicates number reported in 2003 and continued in 2004

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 approved by the 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		11/3/04

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

PART 1 – HEADQUARTERS

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 86-R-0031
CUSTOMER NUMBER: 1698

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

Sun Health Research Institute
10515 W. Sante Fe Dr.
Sun City, AZ 85351

Telephone: (623) -876-5328

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 and 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 repor	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					0
5. Cats					0
6. Guinea Pigs					0
7. Hamsters					0
8. Rabbits	12	84	54	16	154
9. Non-human Primates					0
10. Sheep					0
11. Pigs					0
12. Other Farm Animals					0
13. Other Animals					0

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 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 apr 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)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED 11/23/04

APHIS FORM 7023 (Replaces VS FORM (OCT 88), which is obsolete.)
(AUG 91)

NOV 29 2004

NOV 30 2004

required by law (7 USC 2143). Failure to report according to the regulations may result in an order to cease and desist and to be subject to penalties as provided in Section 2150.

See reverse side for Additional information.

Interagency Report Control No. 0579-0036-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

FY 2004

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

1. REGISTRATION NO.
2. 51-F-016 Cust. ID 441

FORM APPROVED
OMB NO. 0579-0036

3. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include zip code)

National Institutes of Health
Deputy Director for Intramural Research
31 Center Drive, Bldg 31, Room B1C37, MSC 2252
Bethesda , MD 20892

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 12 &/OR 13 OTHER (List by Species)	B. Number of animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery or tests. (an explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report.)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
12. Goose	0	0	0	0	0
Duck	0	0	0	0	0
13. Gerbils	8	0	0	0	0
Ferrets	0	0	0	0	0
Cotton Rats	0	0	227	11	238
Squirrels	110	16	296	0	312
Pigeons	0	8	0	0	8
Frogs	0	0	0	0	2550
Fish	0	0	0	0	50224
Other Amphibians	0	0	0	0	95
Vole	9	0	0	0	0
Mink	0	85	0	0	85
Wild Mice	29	0	0	0	0
Llama	1	0	0	0	0
Chinchillas	0	0	29	0	29

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment and use of animals, including appropriate use of anesthetic 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 approved by the 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)

I certify that the above is true, correct and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME AND TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or print)	DATE SIGNED
		11/23/04

APHIS FORM 7023A
(AUG 91)

EG

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No 0150-0001-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO. 84-R-0040 CUSTOMER NO. 1097

FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, Include Zip Code)*

INHAUSEN RESEARCH INSTITUTE, INC.
PMB 505/2601 S. LEMAY AVE., SUITE 7
FORT COLLINS, CO 80525
(970) 221-1000

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

FACILITY LOCATIONS *(cities)*

See Attached Listing
2625 Midpoint Dr., Ft. Collins, CO 80525

2619 Midpoint Dr., Ft. Collins, CO 80525

2637 Midpoint Dr., Ft. Collins, CO 80525

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	48	230	34	54	318
5. Cats	0	45	0	0	45
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	116	0	0	116
8. Rabbits	0	108	6	0	114
9. Non-Human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	3	0	3
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	0	0	0

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 approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the 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)
I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL *(Type or Print)*	DATE SIGNED
		10-29-03

APHIS (AU [illegible] (Replaces VS 18-23 (Oct 88), which is obsolete

PART 1 - HEADQUARTERS

OCT 30 2003

Column E Explanation

Registration Number: 84-R-0040
Number of animals used in this study: 23
Species of animal in this study: Dog
Explanation of the procedure producing pain and/or distress:
A long lasting analgesic to be used in dogs is tested for efficacy using a surgical model. Female dogs received an ovariohysterectomy (spay). Surgeries were performed under general anesthetic. There are no alternatives to testing analgesics in the target animal. It is common for client owned animals that undergo surgery in clinical practices not to receive analgesics. In one study, 52% of male veterinarians and 36% of female veterinarians did not routinely administer any type of analgesia pre or post operatively to ovariohysterectomy patients and 32 % of males and 24 % of females did not administer analgesia to animals undergoing abdominal surgery other than ovariohysterectomy. In this study dogs that underwent abdominal surgery were placed in one of four groups. One group of animals received carprofen (a common post operative analgesic) according to package directions starting immediately prior to surgery. Two groups of dogs were given the test article (a novel analgesic) immediately prior to surgery. Each group received a different dose of test article. It is necessary to include a control group that did not receive any analgesics to establish the efficacy of the novel analgesic. If there was a failure to differentiate between treated groups, it could be attributed to a true lack of difference between treatments, or an insensitivity of the pain assessment scales. The inclusion of untreated controls will help differentiate any effects seen in the animals. All animals were evaluated frequently for pain levels, both by physical exams and by video monitoring. Any animal that may have received a pain score above acceptable level would receive morphine to alleviate the pain. This was done regardless of which group the animal was in.

Column E Explanation

Registration Number: 84-R-0040
Number of animals used in this study: 26
Species of animal in this study: Dog
Explanation of the procedure producing pain and/or distress:
These dogs were used to test the treatment of oral or topical treatments for flea allergic dermatitis (FAD). There were several groups which included animals treated with currently accepted treatments for FAD as well as experimental treatments and placebo control animals. It is necessary to use the host species for this type of study as there are no non animal models of the integrated immune and inflammatory function of a live animal. Untreated control animals are also necessary to determine the effect of the different test groups with the untreated animals. Dogs which have been sensitized to fleas were used by placing 20 fleas between the shoulder blades of each dog and allowing the fleas to burrow into the hair. The amount of reaction to the fleas was determined by frequent physical exam. Any animals, regardless of group, which developed excessive clinical signs caused by the fleas, such as open sores which require treatment with antibiotics, were treated immediately with appropriate insecticides to eliminate the flea infestation. The animal would also receive any other appropriate treatment necessary to eliminate clinical signs of FAD.

This report is required by law (7 USC 2143) Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2158

See reverse side for additional information 1514

Investigation Report Control No 0179-0004-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO 74-R-0048

FORM APPROVED
OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA Include Zip Code)

Southwest Texas State University
601 University Drive
San Marcos TX 78666

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

A. Animals Covered By The Animal Welfare Regulations — 12. BOR 13. Other (List by species)	B. Number of animals 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 and for which appropriate anesthetics, analgesics, or tranquilizing drugs were used	E. Number of animals upon which teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetics, analgesics, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO OF ANIMALS (Cols. C + D + E)
bats	0	0	63	0	63
various mammals	0	10	0	0	10
birds	0	0	0	21 **	21
birds	0	0	40	0	40
fish	800	800	0	0	800
fish	80	80	0	0	80
fish	40	160	0	0	160
fish	200	0	0	0	0
fish	35	0	0	35 **	35
fish, Xiphophorus	3100	1900	5000	0	10000
fish	50	150	0	0	150
fish	20	70	0	0	70
fish	0	6	0	0	6
salamanders	5	0	0	0	0

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 requested exceptions to the standards and regulations for scientific and explained by the principal investigator and approved by the 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		12/1/03

DEC 1 2003

This report is required by law (7 USC 21 43) Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150

See reverse side for additional information

Interagency Report Control No 0190-0OA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 74-R-0048 | 514

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA Include Zip Code)

Southwest Texas State University
601 University Drive, JCK Suite 489
San Marcos, TX 78666

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

FACILITY LOCATIONS (Sites)

3a. Site1- 601 University Dr., San Marcos (main campus)

3b. Site 2 - University Farm, RR12, San Marcos

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 animals being bred, conditioned or held for use in teaching, testing, experimentation, 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. EX- ANIMALS (Cols. 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	0	0
8. Rabbits	0	0	0	0	0
9. Non-human Primates	0	0	0	0	0
10. Sheep	42	0	0	0	0
11. Pigs	0	0	0	0	0
12. Other Farm Animals	215 cows	0	0	0	0
	20 goats	0	0	0	0
13 Other Animals	4300	3176	5103	56	8335

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 requested that exceptions to the standards and regulations be specifically described by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to describing 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 or other consultant at 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		12/1/03

APHIS is an equal

DEC 1 2003

Registration Number: 22-R-0036

November 22, 2003

Elizabeth Goldentyer, DVM
UNITED STATES DEPARTMENT OF AGRICULTURE
Animal and Plan Health Inspection Service
Regulatory Enforcement and Animal Care
Eastern Region Office
920 Main Campus Drive
Suite 200
Raleigh, NC 27606

Dear Dr. Goldentyer:

Listed below are comments to accompany the annual report of research facilities for site number 1.

The environmental enrichment program has exceptions for social housing for nonhuman primates. Twenty-three rhesus monkeys are housed separately due to special study requirements for controlling and monitoring food consumption as part of the research projects. Twenty cynomolgus monkeys were housed separately for brief periods (1-2 days) while participating in telemetric monitoring studies. All the animals are included in all the other aspects of the environmental enrichment program. The protocols with the exemption are approved by the IACUC and reviewed during the semi-annual program review.

One exception to the canine exercise program is to be reported and involved eight animals. It involved the use of special canine metabolism cages for drug metabolism studies or urine collection studies. The canine metabolism cages provide greater than 100%, but less than 200% of required space for exercise. The period of time in the cages vary with the test compound and study. Most of the studies lasted for 24 hours and the longest lasted for 42 days. Positive human interaction is greatly increased during this period. The protocols with the exemption are approved by the IACUC and reviewed during the semi-annual program review.

Listed below are comments to accompany the annual report of research facilities for site Number 2.

A. Summary of exceptions to the regulations and standards:

There were some exemptions to the pair-housing requirement of our IACUC approved program for the psychological well-being of non-human primates. Most exemptions were for approximately two weeks in duration. A total of five hundred and forty-four non-human primates were exempted from social housing for reasons which include: acclimation and health assessment during the beginning of the quarantine period, establishing suitable cage mates and preparing social caging.

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2?

278-9

See attached form for additional information.

Interagency Report Control No.: 0150-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 43-R-0048
CUSTOMER NUMBER: 1481

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

University of Missouri, Columbia, MO 65211

University Of Missouri-Columbia
205 Jesse Hall

Telephone:
(573)882-9500

Columbia, MO 65211

(Part 1)

2. 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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or test. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	50	32	284	0	315
5. Cats	2	23	30	0	53
6. Guinea Pigs	1	131	68	0	199
7. Hamsters	0	192	0	0	192
8. Rabbits	15	39	164	0	203
9. Non-human Primates	0	0	0	0	0
0. Sheep	2	50	158	0	208
1. Pigs	529	799	24	39	862
2. Other Farm Animals cattle	0	444	48	0	492
horses	10	49	15	9	73
3. Other Animals					
bats	8	190	25	0	215
opossum	0	0	5	0	5
wild mice	0	150	0	0	150

ASSURANCE STATEMENTS

1) Procedurally 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 approved by the 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)
I certify that the above is true, correct, and complete. (7 U.S.C. Section 2143)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
	11/20/00

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APHIS FORM 7023A

11/20/00

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No. 0150-00A-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 43-R-0048

FORM APPROVED
OMB NO. 0579-0036

University of Missouri, Columbia, MO 65211

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, Include Zip Code)*

University of Missouri-Columbia
205 Jesse Hall
Columbia, MO 65211

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY *(Attach additional sheets if necessary or use this form.)*

Animals Covered By The Animal Welfare Regulations 12, &/OR 13. Other *(List by species)*	B. Number of animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
13: other animals cont.					
gerbils	70	0	270	0	270
voles	0	50	0	0	50

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 approved by the 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL *(Type or Print)*	DATE SIGNED
		11/20/00

APHIS FORM 7023A

University of Missouri-Columbia (43-R-048)

Annual Report of Research Facility - Attachments

\CILITY LOCATIONS:

Allton Bldg.

-lab: room 233, 234

Animal Science Research Center

-animal housing facility: ASRC Units B, C, D, F,

-labs: E142, N126, N152, N153, & N190

Clydesdale Hall

-animal housing facility: 13, A222 ward, A227, A230-1, A253, A256, A266, A268, A273, B120C, B125, B208, B213, & B229

Connaway Hall

-animal housing facility, 1st floor: rooms W2-23, W104, W117, and W102-W123

Dalton Research Center

-animal housing facility: rooms 106, 108, 112, 114, 116, 118, 124, 221A, 225A, 226, 228, 230, 233A, 233B, 311, 312, 313, 329, 331, 334

-labs: 104, 203, 209, 229, 306, 309, 310, 311, 312, 313, 314, 322, 325, 326, 328

Engineering Bldg

-animal housing: room C2204

Green Building

-animal housing: room 115

Laboratory Animal Center

-animal housing facility: rooms 1-26

Lefevre Hall

-animal housing: rooms 2, 3, 5, 9, 19, 21, 24, 27, 28A, 28B, 28C, 28D, 28E, 29A, 29B, 29C, 206,

-labs: 113, 208, 209, 214

Medical Science Building

-centralized animal care facility, 1st floor (including experimental surgery) - animal housing rooms: A101-A164

-labs: rooms M332, M401, M420, M423, M463, M514, M648, N422, N507, NE305, NE306, NW300, and NW303

ddlebush Farm

-animal housing and use: Equine Center, Theriogenology Bldg., paddocks

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No 0180-00A-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO. 93-V-0005

FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

Dept of Veterans Affairs
Research + Development Computing Center
103 South Gay Street - 4th Floor, Room 400
Baltimore MD 21202-4051

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

FACILITY LOCATIONS (Sites)

VA Loma Linda Healthcare System
11201 Benton St., Loma Linda CA 92357

COPY

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits	1	41			41
9. Non-human Primates					
10. Sheep				Correction:	
11. Pigs				See attached report	
12. Other Farm Animals				dated 30 June 04	
13. Other Animals					
Chinchillas			30	~~40~~ 60	90

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 approved by the 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		11/14/03

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

JUL 8 2004

PART 1 - HEADQUARTERS

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150. NOV 1 0 2003 See reverse side for additional information. Interagency Report Control No. 0580-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO.
93-V-004

FORM APPROVED
OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA. Include Zip Code)*

Department of Veterans Affairs
810 Vermont Avenue, NW
Washington, DC 20420

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

FACILITY LOCATIONS *(Sites)*

664-VA San Diego Healthcare System
3350 La Jolla Village Drive
San Diego, CA 92161

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs					0
5. Cats					0
6. Guinea Pigs	0	0	101	0	101
7. Hamsters					0
8. Rabbits	0	3	91	1527	1621
9. Non-human Primates					0
10. Sheep					0
11. Pigs					0
12. Other Farm Animals					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 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 approved by the 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL *(Type or Print)*	DATE SIGNED
		10/28/03

APHIS FORM (AUG 91)

VS FORM 18-23 (OCT 88), which is obsolete.)

PART 1 - HEADQUARTERS

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No. 0150-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 74-R-0049 | CUSTOMER NO. 1503

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, include Zip Code)*

STILLMEADOW INC
12852 PARK ONE DR
SUGAR LAND, TX 77478

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

FACILITY LOCATIONS *(cities)*

SITE1
SUGAR LAND, TX 77478

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	158	531	8	24	563
5. Cats	49	155		24	179
6. Guinea Pigs		541		29	570
7. Hamsters		88		20	108
8. Rabbits		1200		140	1340
9. Non-Human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
Horses		2	11		13
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 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 approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL *(Type or Print)*	DATE SIGNED
		11/21/2003

APHIS FORM 7023 (AUG 91)

(Replaces VS FORM 18-23 (Oct 88), which is obsolete

PART 1 - HEADQUARTERS

APR - 1 2004

74R0048
1514

Justification for response in "E"

** Birds were trapped and fitted with an external radio transmitter and released

*** Animals are killed by the AVMA-approved method of spinal section and pithing..
They presumably experience some distress during capture, and momentary pain during
the killing procedure

1. Registration Number: 74-R-0049 / 1503

2/3. Species (common name) & Number of animals used in this study:

Dogs (24)
Guinea Pigs (29)
Cats (24)
Rabbits (140)

4. Explain the procedure producing pain and/or distress.

The pain or distress in dogs in Column E was due to flea allergy dermatitis. These dogs were not treated with anesthetics or analgesics because the particular tests being conducted were efficacy tests of drugs designed to prevent or reduce symptoms of flea allergy dermatitis. Efficacy of these drugs can only be determined if the animals are infested with fleas and exhibit flea allergy dermatitis. The cats referenced in Column E were animals used as flea hosts. It is assumed they suffer stress and discomfort from the flea infestation. When toxicity and/or irritation studies are done on rabbits, test material is either dropped into one eye of the rabbit or it is applied to the skin. When this dosing to the eye occurs, the animals occasionally squeal and it is assumed that they squeal in pain or distress. Guinea pigs are restrained temporarily during and after administration of the test material in sensitization studies. They find the restraint stressful. In the case of dermal toxicity tests, cage-side observations include evaluation of the central nervous system, somamotor activity and behavior patterns. These would be altered by the use of anesthetics or tranquilizers.

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)

Most studies are federally mandated. However, we sometimes conduct screens to determine if further testing is necessary. When doing these screens, observations are made to the treated areas on rabbits, looking for signs of irritation (usually redness or swelling) that may have been caused by the test material. We do not always use anesthetics because we may not be able to distinguish between discoloration caused by the test material and discoloration possibly caused by an anesthetic.

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, 9 CFR 113.102):

Agency: USEPA Health Effects Test Guidelines, Office of Prevention, Pesticides and Toxic Substances, OPPTS 870-1200, Acute Dermal Toxicity, OPPTS 870.2400, Acute Eye Irritation, OPPTS 870-2500, Acute Dermal Irritation, OPPTS 870-2600, Guinea Pig Sensitization

CFR:

Approval Status:
Approved/Disapproved By:
Date:

Disapproved Reason:

his report is required by law (7 USC 2143). Failure to report according to the regulations can esult in an order to cease and desist and to be subject to penalties as provided for in Section 21

NOV 26 2003

See attached form for additional information.

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 22-R-0036
CUSTOMER NUMBER: 181

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

Schering Corporation
Schering-Plough Research Inst.
2015 Galloping Hill Road
Kenilworth, NJ 07033

Telephone: (908) -298-4000

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)

Animals Covered By The Animal Welfare Regulations	B. Number of animals 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 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, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals a the reasons such drugs were not used must be attached this report).	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
Dogs	0	94	151	3	248
Cats	0	0	27	0	27
Guinea Pigs	0	4381	2435	0	6816
Hamsters	0	0	110	0	110
Rabbits	0	615	352	11	978
Non-human Primates	95	470	413	8	891
Sheep	0	0	0	0	0
Pigs	0	0	0	0	0
Other Farm Animals	0	0	0	0	0
Other Animals					
Gerbils	0	48	4272	0	4320

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 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 inc 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)

S	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		11/25/03

APHIS FORM 7023 (Replaces VS FORM 16-23 (OCT 88), which is obsolete.)
(AUG 91)

Customer ID and Site Address: Site 1

ID: 181

2000 Galloping Hill Rd
Kenilworth, NJ 07033
County: Union

Telephone
(908)298-4000

Customer ID and Site Address: Site 2

ID:181

P O Box 32 Route 94
Lafayette, NJ 07848
County: Sussex

Telephone
(973)940-4100

285

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO.
74-V-009

FORM APPROVED
OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY *(Name and Address, as registered with USDA, Include Zip Code)*

Department of Veterans Affairs Central Office
810 Vermont Avenue, NW
Washington, DC 20420

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

671

FACILITY LOCATIONS *(Sites)*

South Texas Veterans Health Care System
Audie L. Murphy Division
7400 Merton Minter Blvd.
San Antonio, TX 78284

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters			15	60	75
8. Rabbits			41		41
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Rats		198	36	397	631
Mice	8523	4604	4342	9076	18022

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 approved by the 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL *(Type or Print)*	DATE SIGNED
		11/14/00

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

PART 1 - HEADQUARTERS

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150

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See reverse side for additional information

Interagency Report Control No. 0186-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO.

FORM APPROVED
OMB NO. 0579-0036

2. HEADQUARTERS (Include Zip Code) 14-R-0009, Cust Id 105

(see attached)

BOSTON UNIVERSITY MEDICAL SCHOOL
80 E. CONCORD STREET
BOSTON, MA 02118

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

FACILITY LOCATIONS (Sites)

Boston University Medical Center
Lab Animal Science Center, 700 Albany Street

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	Ø	Ø	Ø	Ø	Ø
5. Cats	Ø	Ø	14	Ø	14
6. Guinea Pigs	Ø	108	Ø	Ø	108
7. Hamsters	8	Ø	Ø	Ø	Ø
Rabbits	Ø	178	246	Ø	424
9. Non-human Primates	34	Ø	60	Ø	60
10. Sheep	Ø	Ø	Ø	Ø	Ø
11. Pigs	2	2	62	Ø	64
12. Other Farm Animals	Ø	Ø	Ø	Ø	Ø
poikilotherms	400	460	38	Ø	498
13. Other Animals Ferrets	Ø	Ø	4	Ø	4
mice	5244	12,629	5459	Ø	18,088
rats	209	7177	6969	Ø	14,146
chinchillas	Ø	Ø	220	25	245

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.

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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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
		11/29/00

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

PART [illegible] LETTERS

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information.

Interagency Report Control No. 0180-DCIA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO. 55-R-0026, Cust Id 814

FORM APPROVED 0-0036 (for USDA)

2. HEADQUARTERS ADDRESS (Include Zip Code)
GLAXO WELLCOME, INC.
FIVE MOORE DR.
RESEARCH TRIANGLE PA, NC 27709

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

FACILITY LOCATIONS (Sites)

Moore Drive Site: Drug Evaluation Lab, Drug Safety Assessment

Cornwallis Road Site: Toxicology Animal Facility, Research Commons II

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 animals 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 and 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 tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. *(An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).*	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	20	150	4	26	180
5. Cats	0	1	124	0	125
6. Guinea Pigs	4	97	2	0	99
7. Hamsters	0	169	0	0	169
8. Rabbits	0	82	17	0	99
9. Non-human Primates	0	20	0	0	20
10. Sheep	N/A	0	0	0	0
11. Pigs	N/A	0	0	0	0
12. Other Farm Animals	N/A	0	0	0	0
13. Other Animals	N/A	0	0	0	0

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 approved by the 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)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL *(Type or Print)*	DATE SIGNED
		30 NOV 2000

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88) which is obsolete.)

USDA Registration Number 55-R-026
Attachment to USDA Annual Report dated November 28, 2000
Explanation of Animals Listed in Column E of this Report

The 26 dogs listed in Column E for this reporting year are assigned to a study that involves transection of the cranial cruciate ligament. The purpose of the study is to create an inflammatory disease model, which will be used to test new compounds developed for the treatment of osteoarthritis. Even though analgesics are administered immediately post operatively these will be discontinued within 24 hours after the surgery. Administering analgesics may interfere with the disease course because pain level changes are associated with neurological and endocrinological changes that affect the inflammatory process. Administration of test compound begins at 4-7 days post op with dogs being placed in a structured exercise program (pre-acclimated prior to surgery) at 7 days post op.

The Veterinarians and IACUC feel that these dogs potentially experienced "more than slight or momentary pain or distress", as defined in the *Animal Welfare Act*. Even though additional analgesics are not provided, the dogs are monitored by the Veterinarian and the scientist for such clinical signs as weight loss, inappetance, inability or unwillingness to use the affected limb, etc. which would be indicative of a need to potentially euthanize a given dog.