## ANNUAL REPORT OF RESEARCH FACILITY

### (TYPE OR PRINT)

**FACILITY LOCATIONS (sites)**

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORTH CAROLINA STATE UNIVERSITY</td>
<td>RALEIGH, NC 27695-7003</td>
</tr>
<tr>
<td>MOUNTAIN RESEARCH STATION</td>
<td>FLETCHER, NC 28732</td>
</tr>
</tbody>
</table>

### REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY

<table>
<thead>
<tr>
<th>A. Animals Covered By The Animal Welfare Regulations</th>
<th>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</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>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</th>
<th>E. Number of animals upon which 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 or that 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)</th>
<th>F. TOTAL NO. OF ANIMALS (Cols. C + D + E)</th>
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</thead>
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<td>Other Animals</td>
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<td>American Black Bears</td>
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<td>22</td>
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<tr>
<td>Grasshopper Mice</td>
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<tr>
<td>Pine Voles</td>
<td>270</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### 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**

11/27/2002
# CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

### A. Animals Covered By The Animal Welfare Regulations

<table>
<thead>
<tr>
<th>Species</th>
<th>Number Used</th>
<th>Number of Animals Upon Which Teaching, Research, Experiments, or Tests Were Conducted</th>
<th>Number of Animals upon Which Experiments, Teaching, Research, Surgery, or Tests were Conducted Involving No Pain, Distress, or Use of Pain-Relieving Drugs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle</td>
<td>6</td>
<td>32</td>
<td>38</td>
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<tr>
<td>Goat</td>
<td>26</td>
<td>26</td>
<td>26</td>
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<tr>
<td>Red Wolves</td>
<td>3</td>
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<td>3</td>
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<tr>
<td>Woodchucks</td>
<td>33</td>
<td>5</td>
<td>38</td>
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<tr>
<td>Pallas Cats</td>
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<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Gerbils</td>
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</tr>
<tr>
<td>Ferrets</td>
<td>12</td>
<td>12</td>
<td>12</td>
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<th>NAME &amp; TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)</th>
<th>DATE SIGNED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>11/27/2002</td>
</tr>
</tbody>
</table>

APHIS FORM 7023A (Replaces VS FORM 18-23 (Oct 88), which is obsolete)
A dog model of human glycogen storage disease, type Ia has been developed. Affected puppies are homozygous recessive for the mutated glucose-6-phosphatase gene. These puppies are unable to convert glucose-6-phosphate to glucose and therefore, are hypoglycemic, if not treated. Newborn affected puppies show overt clinical signs of hypoglycemia (weak, lethargic, seizures). Gene therapy was used to correct clinical hypoglycemia in two affected puppies by injecting each puppy at 3 days of age with a virus vector carrying the normal gene. Regulated gene expression sufficient to clinically correct hypoglycemia is expected by 6 weeks after gene therapy. Puppies receive food supplementation, if needed, during this period to prevent the clinical affects of hypoglycemia. Puppies that do not respond to gene therapy or clinical treatment as indicated by not meeting the following humane endpoints are removed from the study for euthanasia: not eating > 48 hours, weight loss > 15% of normal weight, mutilation of surgical site, depression > 72 hours, non-weight bearing > 72 hours, infection not resolved with antimicrobial therapy, moderate to severe clinical signs of pain and distress unalleviated by appropriate analgesics.

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)

See description in #4

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:  

CFR:  

Approval Status:  
Approved/Disapproved By:  
Date:  

Disapproved Reason:  


1. Registration Number: 55-R-0005 / 842

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

Rabbits (7)

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

Under proparacaine-induced topical anesthesia, one eye of rabbits will be intravitreally injected with a test reagent (LPS 10-50 microliters approximately 3 mm posterior to the limbus. The contralateral eye will receive an equal volume of the appropriate vehicle. Injections will be made with a 30- gauge needle attached to a glass Hamilton syringe. At the same time Adv5IkB or ADvSTGFB will be instilled or intravitreally injected (50 microliters). Animals will be monitored for evidence of inflammation at various time intervals with a slit lamp to determine the appropriate time for euthanasia.

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)

Rabbit eyes are injected after proparacaine HCl drops have anesthetized the corneal surface. However, the use of opioid analgesics, corticosteroids, or non-steroidal anti-inflammatories are not used as they might alter the course of inflammation that is being studied. The use of additional animals to evaluate these substances would need to be included as controls. Investigators in the literature utilizing this same animal model do not use opioid analgesics in their studies. The dose of endotoxin that we inject is low compared to most reports in the literature and induces a moderate inflammatory response. The animals continue to eat and do not become photophobic. The rabbits do not lose appetite or become photophobic. Rabbits are observed closely and if signs of distress are exhibited we would terminate the experiment immediately or contact the laboratory animal veterinarians.

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:  
CFR:  

Approval Status:  
Approved/Disapproved By:  
Date:  
Disapproved Reason:  

---
1. Registration Number: 55-R-0005 / 842

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

Pigs (86)

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

15 pigs- Pigs will be infected with infectious organisms (Porcine reproduction & Respiratory Syndrome virus and Mycoplasma hyponeumoniae), which create pneumonia-like symptoms. Approximately, 3 days after infection, anorexia and fever are expected. If animals become too debilitated (fever with body temperature > 105 F for 2 days and lateral recumbency (2 days) and refusal to eat for 3 days, the animals will be euthanized. 71 pigs - Pigs were infected with PRRS virus to evaluate antibody responses and clinical signs / protection following reexposure to homologous strain virus.

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

15 pigs - We are examining means of improving swine performance without antibiotics and do not want treatments to relieve distress and mask potential benefits of test products. We wish, as much as possible, to mimic disease effects found in the swine industry. 71 pigs-We were monitoring temperature responses following challenge with PRRSv and use of analgesics would have interfered with the normal expression of fever. Fever is one of the most reliable indicators of lack of protection to PRRSv challenge in immunized animals, particularly in adult swine.

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:  
CFR:  

Approval Status: 
Approved/Disapproved By:  
Date:  
Disapproved Reason:
1. Registration Number: 55-R-0005 / 842

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

   Woodchucks (5)

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

   Woodchuck hepatitis virus infected woodchucks are at risk for liver tumor development. We use infected animals in antiviral trials. Chronically infected animals are kept to yield preneoplastic and neoplastic liver lesions for study of the mechanisms of cancer.

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)

   It cannot be determined if an animal develops a tumor until blood is collected for serum gamma glutamyl transpeptidase or they are sedated and palpated. Since they cannot be on pain relief medication their entire life span, there may be a period during which an animal has hepatocellular carcinoma. Once the tumor is identified the animals are euthanized.

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:  
   CFR:  

   Approval Status:  
   Approved/Disapproved By:  
   Date:  
   Disapproved Reason:  

The following additional sites have been reported by the facility. The reported sites have not been verified by APHIS and have been provided by the facility solely for completeness of the APHIS Form 7023 Annual Reporting submission.

Registration Number: 55-R-0005
Customer Number: 842
Facility: NORTH CAROLINA STATE UNIVERSITY
PO BOX 7003
RALEIGH, NC 27695

Site A: College of Veterinary Medicine
Site A Address: Laboratory Animal Resources (LAR)
Site A City, State, Zip: Raleigh, NC

Site B: College of Veterinary Medicine
Site B Address: Pylon Research Facilities
Site B City, State, Zip: Raleigh, NC

Site C: College of Veterinary Medicine
Site C Address: Veterinary Equine Research Center (VERC)
Site C City, State, Zip: Southern Pines, NC

Site D: College of Veterinary Medicine
Site D Address: Teaching Animal Unit
Site D City, State, Zip: Raleigh, NC

Site E: College of Agriculture and Life Sciences
Site E Address: Biological Resources Facility
Site E City, State, Zip: Raleigh, NC

Site F: College of Agriculture and Life Sciences
Site F Address: Lake Wheeler Field Laboratory - Swine
Site F City, State, Zip: Raleigh, NC

Site G: Central Crops Research Station
Site G Address: Clayton Swine Test Station
Site G City, State, Zip: Clayton, NC

Site H: University Field Laboratories
Site H Address: Metabolism Educational Unit
Site H City, State, Zip: Raleigh, NC
## Annual Report of Research Facility

### Facilities
- **U.S. Environmental Protection Agency**
  - National Health & Environmental Research Triangle Pa, NC 27711
  - Telephone: (919) -541-2281

### Facilities Locations
- See Attached Listing

### Animals Used

<table>
<thead>
<tr>
<th></th>
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</tr>
</tbody>
</table>

### 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.

### Certification
- **Certification By Headquarters Research Facility Official**
  - (Chief Executive Officer or Legally Responsible Institutional Official)
  - **Date Signed**: 10-18-02
APHIS Form 7023 Site List

The following sites have been reported by the facility.

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<th>Registration Number:</th>
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<tbody>
<tr>
<td>Customer Number:</td>
<td>962</td>
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<tr>
<td>Facility:</td>
<td>1. Environmental Research Center</td>
</tr>
<tr>
<td></td>
<td>2. NHEERL Facility</td>
</tr>
</tbody>
</table>
This report is required by law (7 U.S.C. 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.

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. REGISTRATION NO.
   55-F-0007
2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA. Include Zip Code)
   USAJFKSWCS
   Medical Training
   BLDG: 5-3845
   Fort Bragg, NC 28310
   Telephone: (910) 396-0089

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 see 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.
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   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 appropriate anesthetic, analgesic, or tranquilizing drugs were used.
   F. TOTAL NO. OF ANIMALS

<table>
<thead>
<tr>
<th>Animals Covered</th>
<th>B. Number of Animals</th>
<th>C. Number of Animals</th>
<th>D. Number of Animals</th>
<th>E. Number of Animals</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cats</td>
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<tr>
<td>Guinea Pigs</td>
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<td>1126</td>
</tr>
</tbody>
</table>

ASSURANCE STATEMENTS

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SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL
NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)
DATE SIGNED
22/09/03
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in fines up to $10,000.

**UNITED STATES DEPARTMENT OF AGRICULTURE**
**ANIMAL AND PLANT HEALTH INSPECTION SERVICE**

**ANNUAL REPORT OF RESEARCH FACILITY**

**CERTIFICATE NUMBER:** 55-R-0002
**CUSTOMER NUMBER:** 861

Research Triangle Institute
3040 Cornwallis Rd.
P.O. Box 12194
Research Triangle Pa, NC 27709
Telephone: (919) -541-6412

<table>
<thead>
<tr>
<th>FACILITY LOCATIONS ( Sites ) - See Attached Listing</th>
</tr>
</thead>
</table>

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</tbody>
</table>

| 4. Dogs |
| 5. Cats |
| 6. Guinea Pigs |
| 7. Hamsters |
| 8. Rabbits | 0 | 111 | 159 | 0 | 270 |
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| 10. Sheep |
| 11. Pigs |
| 12. Other Farm Animals |
| 13. Other Animals |

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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

### CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

DATE SIGNED 11/1/02
The following sites have been reported by the facility.

Registration Number: 55-R-0002
Customer Number: 861
Facility:
RESEARCH TRIANGLE INSTITUTE
3040 CORNWALLIS RD.
P.O. BOX 12194
RESEARCH TRIANGLE PA, NC 27709
(919) 541-6412

RESEARCH TRIANGLE INSTITUTE
3040 CORNWALLIS ROAD
RESEARCH TRIANGLE PA, NC 27709
### Report of Animals Used by or Under Control of Research Facility

#### A. Animals Covered by the Animal Welfare Regulations

<table>
<thead>
<tr>
<th>Category</th>
<th>B. Number of Animals Being Used</th>
<th>C. Number of Animals Upon Which Teaching, Research, Experiments, or Tests Were Conducted</th>
<th>D. Number of Animals Upon Which Teaching, Research, Surgery, or Tests Were Conducted Involving No Pain, Distress, or Use of Pain-Relieving Drugs</th>
<th>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 Appropriate Anesthetic, Analgesic, or Tranquilizing Drugs Were Used</th>
<th>F. Total Number of Animals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td>162</td>
<td>55</td>
<td>0</td>
<td>217</td>
<td>217</td>
</tr>
<tr>
<td>Cats</td>
<td>23</td>
<td>1</td>
<td>0</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Guinea Pigs</td>
<td>13</td>
<td>68</td>
<td>0</td>
<td>81</td>
<td>81</td>
</tr>
<tr>
<td>Hamsters</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rabbits</td>
<td>97</td>
<td>120</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Non-human Primates</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Sheep</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Pigs</td>
<td>137</td>
<td>171</td>
<td>0</td>
<td>308</td>
<td>308</td>
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<tr>
<td>Other Farm Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ground Squirrels</td>
<td>12</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

#### 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 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 of 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 welfare.
3. Facility Locations:

A). Mary Ellen Jones Building
B). Thurston-Bowles Building
C). Dental Research Center
D). Beard Hall
E). Davie Hall
F). Berryhill Hall
G). Burnett-Womack Building
H). Taylor Hall
I). McGavran-Greenberg
J). Francis Owen Blood Research Laboratory
K). Animal Resources Center
L). Neuroscience Research Building
### Annual Report of Research Facility

**1. Certificate Number:** 55-R-0007  
**Customer Number:** 829

University Of North Carolina  
9201 University City Blvd.  
Charlotte, NC 28223  
Telephone: (704) -547-2291

**Date Signed:** 11/6/02

#### Report of Animals Used By or Under Control of Research Facility

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet</td>
</tr>
<tr>
<td>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, a</td>
</tr>
</tbody>
</table>

- **4. Dogs**
- **5. Cats**
- **6. Guinea Pigs**
- **7. Hamsters**
- **8. Rabbits**
- **9. Non-human Primate**
- **10. Sheep**
- **11. Pigs**
- **12. Other Farm Animals**
- **13. Other Animals**

#### Assurances 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 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

**Certification by Headquarters Research Facility Official**

(AUG 91)
The following sites have been reported by the facility.

Registration Number: 55-R-0007  
Customer Number: 829  
Facility: UNIVERSITY OF NORTH CAROLINA  
9201 UNIVERSITY CITY BLVD.  
CHARLOTTE, NC 28223  
(704) 547-2291

UNC @ CHARLOTTE  
MCENIRY HALL  
CHARLOTTE, NC 28223
United States Department of Agriculture
Animal and Plant Health Inspection Service

Annual Report of Research Facility
(Type or Print)

Interagency Report Control No.:

East Carolina University
Department Of Comparative Med,
School Of Medicine
Greenville, NC 27858
Telephone: (919) -816-2076

Nov 20, 2002

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

<table>
<thead>
<tr>
<th>Animals Covered</th>
<th>B. Number of Animals Being Bred, Conditioned, or Held for Use in Teaching, Testing, Experiments, Research, or Surgery but Not Yet</th>
<th>C. Number of Animals upon Which Teaching, Research, Experiments, or Tests Were Conducted Involving No Pain, Distress, or Use of Pain-Relieving Drugs.</th>
<th>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 Would Have Adversely Affected the Procedures, Results, or Interpretation of the Teaching, Research, Experiments, Surgery, or Tests.</th>
<th>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.</th>
<th>F. Total Number of Animals (Columns C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td>64</td>
<td></td>
<td></td>
<td></td>
<td>64</td>
</tr>
<tr>
<td>Cats</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Guinea Pigs</td>
<td>38</td>
<td></td>
<td></td>
<td></td>
<td>38</td>
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<tr>
<td>Hamsters</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Rabbits</td>
<td>18</td>
<td>468</td>
<td></td>
<td></td>
<td>486</td>
</tr>
<tr>
<td>Non-human Primate</td>
<td>35</td>
<td></td>
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<td></td>
<td>35</td>
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<tr>
<td>Sheep</td>
<td>47</td>
<td></td>
<td></td>
<td></td>
<td>47</td>
</tr>
<tr>
<td>Pigs</td>
<td>169</td>
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<tr>
<td>Other Farm Animals</td>
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<tr>
<td>Other Animals</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Ferret</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Grasshopper Mice</td>
<td>102</td>
<td></td>
<td></td>
<td></td>
<td>102</td>
</tr>
</tbody>
</table>

Assurance Statements

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

Certification by Headquarters Research Facility Official

Date Signed: 11/18/02

Chief Executive Officer or Other Official
Licensee/Registrant Name: East Carolina University

License/Registration Number: 55-R-0010

Please list below all sites that house regulated animals under the above number. Be sure to include all requested information. If the line does not apply, please mark it N/A. If you have more than three (3) sites copy this form as many times as needed before filling in the sites.

Site No.: 1 Name/Department: School of Medicine

Address: Moye Boulevard, East Carolina University

Greenville, NC 27858

Building: Brody Medical Sciences

Floor/Room: Animal Housing on Ground and Seventh Floor; Research Laboratories on Floors Three thru Eight

Contact Person: [Redacted] Phone No.: [Redacted]

Site No.: 2 Name/Department: School of Medicine

Address: Emergency Drive, East Carolina University

Greenville, NC 27858

Building: Life Sciences Building

Floor/Room: Animal Housing on First Floor; Research Laboratories on Second Floor

Contact Person: [Redacted] Phone No.: [Redacted]
<table>
<thead>
<tr>
<th>Site No.</th>
<th>Name/Department</th>
<th>Address</th>
<th>Building</th>
<th>Floor/Room</th>
<th>Contact Person</th>
<th>Phone No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Biology</td>
<td>East Carolina University</td>
<td>Howell Science Complex</td>
<td>First and Third Floors – Animal Housing Facility</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Psychology</td>
<td>East Carolina University</td>
<td>Ragsdale Annex</td>
<td>First Floor – Animal Housing Facility and Laboratories</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 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)

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet</th>
<th>Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>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 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.)</th>
<th>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.)</th>
<th>TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Cats</td>
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<td></td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td></td>
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<tr>
<td>7. Hamsters</td>
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<tr>
<td>8. Rabbits</td>
<td></td>
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<tr>
<td>9. Non-human Primate</td>
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<tr>
<td>10. Sheep</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>11. Pigs</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>12. Other Farm Animals</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>13. Other Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voles</td>
<td>100</td>
<td>70</td>
<td>0</td>
<td>0</td>
<td>70</td>
</tr>
</tbody>
</table>

#### 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 treatment.

---

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in severe penalties.

INTERAGENCY REPORT CONTROL NO.: 0579-0036

1. CERTIFICATE NUMBER: 55-R-0013
   CUSTOMER NUMBER: 821

Greer Laboratories, Inc.
Albion Medical Holdings, Inc
639 Nuway Circle, N.E.
P.O. Box 800
Lenoir, NC 28645

Telephone: (334)-754-5327 828-754-5327

1. 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)

<table>
<thead>
<tr>
<th>A. Animals Covered By The Animal Welfare Regulations</th>
<th>B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>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 was used</th>
<th>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 annual report)</th>
<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Cats</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td>469</td>
<td>3,174</td>
<td></td>
<td></td>
<td>3,174</td>
</tr>
<tr>
<td>7. Hamsters</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>8. Rabbits</td>
<td>23</td>
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<td></td>
<td>23</td>
</tr>
<tr>
<td>9. Non-human Primate</td>
<td></td>
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<tr>
<td>10. Sheep</td>
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<tr>
<td>11. Pigs</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. Other Farm Animals</td>
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</tr>
<tr>
<td>13. Other Animals</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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 treatment.

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

DATE SIGNED: 10/28/2002
The following sites have been reported by the facility.

<table>
<thead>
<tr>
<th>Registration Number:</th>
<th>55-R-0013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer Number:</td>
<td>821</td>
</tr>
</tbody>
</table>
| Facility:            | GREER LABORATORIES, INC.  
|                      | 639 NUWAY CIRCLE, N.E.  
|                      | P.O. BOX 800  
|                      | LENOIR, NC 28645  
|                      | (828) 754-5327 |

GREER LABORATORIES/ANIMAL FACILITY  
HIGHWAY 90 NORTH  
LENOIR, NC 28645
**ANNUAL REPORT OF RESEARCH FACILITY**

**1. REGISTRATION NO.**
55-R-0017

**CUSTOMER NO.**
822

**FORM APPROVED**
OMB NO. 0579-0036

---

**2. HEADQUARTERS RESEARCH FACILITY**

Center for Health Research

Chemical Industry Institute of Toxicology
6 Davis Drive
Research Triangle Park, 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.

<table>
<thead>
<tr>
<th>FACILITY LOCATIONS/sites</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>See Attached Listing</td>
<td></td>
</tr>
</tbody>
</table>

---

**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY**

(Attach additional sheets if necessary or use APHS FORM 7023A)

<table>
<thead>
<tr>
<th>A. Animals Covered By The Animal Welfare Regulations</th>
<th>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</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>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</th>
<th>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)</th>
<th>F. TOTAL NO. OF ANIMALS (Cols. C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Cats</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
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<tr>
<td>7. Hamsters</td>
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<tr>
<td>8. Rabbits</td>
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<tr>
<td>9. Non-Human Primates</td>
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<tr>
<td>10. Sheep</td>
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<td>11. Pigs</td>
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<tr>
<td>12. Other Farm Animals</td>
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</tr>
<tr>
<td>13. Other Animals</td>
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<td></td>
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<tr>
<td>Mice</td>
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<td>2,924</td>
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<tr>
<td>Rats</td>
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</tr>
</tbody>
</table>

---

**ASSURANCE STATEMENTS**

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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)

<table>
<thead>
<tr>
<th>Print</th>
<th>DATE SIGNED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10/01/02</td>
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</tbody>
</table>

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**PART 1 - HEADQUARTERS**
The following sites have been reported by the facility:

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<thead>
<tr>
<th>Registration Number:</th>
<th>55-R-0017</th>
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</thead>
<tbody>
<tr>
<td>Customer Number:</td>
<td>822</td>
</tr>
<tr>
<td>Facility:</td>
<td>CHEMICAL INDUSTRY INSTITUTE OF TOXICOLOGY  CIIT Centers for Health Research  6 DAVIS DRIVE  RESEARCH TRIANGLE PA, NC 27709</td>
</tr>
</tbody>
</table>

CIIT
6 DAVIS DRIVE
RESEARCH TRIANGLE PA, NC 27709
This report is required by law (7 USC 2143). Failure to report according to the regulations can
be punished by law.

Central Carolina Community College
1105 Kelly Drive
Sanford, NC 27330
Telephone: (919) 775-5401

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>A. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>0</td>
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<tr>
<td>5. Cats</td>
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<tr>
<td>6. Guinea Pigs</td>
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<td>7. Hamsters</td>
<td>0</td>
</tr>
<tr>
<td>8. Rabbits</td>
<td>0</td>
</tr>
<tr>
<td>9. Non-human Primate</td>
<td>0</td>
</tr>
<tr>
<td>10. Sheep</td>
<td>0</td>
</tr>
<tr>
<td>11. Pigs</td>
<td>0</td>
</tr>
<tr>
<td>12. Other Farm Animals</td>
<td>1</td>
</tr>
<tr>
<td>13. Other Animals</td>
<td>0</td>
</tr>
<tr>
<td>Cows</td>
<td>0</td>
</tr>
<tr>
<td>Horses</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
</tr>
<tr>
<td>Cats</td>
</tr>
<tr>
<td>Guinea Pigs                                                                        5</td>
</tr>
<tr>
<td>Hamsters                                                                            0</td>
</tr>
<tr>
<td>Rabbits                                                                             0</td>
</tr>
<tr>
<td>Non-human Primate                                                                   0</td>
</tr>
<tr>
<td>Sheep                                                                                0</td>
</tr>
<tr>
<td>Pigs                                                                                  0</td>
</tr>
<tr>
<td>Other Farm Animals                                                                  1</td>
</tr>
<tr>
<td>Cows                                                                                  0</td>
</tr>
<tr>
<td>Horses                                                                               0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. 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, a</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
</tr>
<tr>
<td>32</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>D. Number of animals upon which teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, a</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>E. Number of animals upon which teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, a</td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
</tr>
<tr>
<td>32</td>
</tr>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

ASSURANCE STATEMENTS

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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Law)
Facility Locations (Sites)

1. Small animals: Central Carolina Community College Science Building / Vet. Lab
   1105 Kelly Drive
   Sanford, NC 27330

2. Large animals: Gaster's Farm
   2718 Country Way
   Sanford, NC 27330
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in penalties.

See attached form for additional information.

Interagency Report Control No.

1. CERTIFICATE NUMBER: 55-R-0021
   CUSTOMER NUMBER: 823

University Of North Carolina
@ Greensboro
Research Services Rm.100 Mciver Bldg
Greensboro, NC 27402
Telephone: (336) -334-5878

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)

<table>
<thead>
<tr>
<th>A. Animals Covered By The Animal Welfare Regulations</th>
<th>B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet</th>
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<th>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 tranquillizing 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)</th>
<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Cats</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Guinea Pigs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Hamsters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Rabbits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Non-human Primate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Sheep</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Pigs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Other Farm Animals</td>
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<tr>
<td>Other Animals</td>
<td></td>
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<td></td>
<td>0</td>
</tr>
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</table>

ASSURANCE STATEMENTS

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

DATE SIGNED 11/12/02
**ANNUAL REPORT OF RESEARCH FACILITY**

**CERTIFICATE NUMBER:** 55-R-0022

**CUSTOMER NUMBER:** 813

**North Carolina A&T State University**
Lab. Animal Resource Unit
116 Webb Hall
Greensboro, NC 27411

**Telephone:** (336) 334-7720

**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)**

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>A. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet</th>
<th>B. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
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<th>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.)</th>
<th>F. TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>2</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>6</td>
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<td>0</td>
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</tr>
<tr>
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<td>11</td>
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<td>7. Hamsters</td>
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<td>0</td>
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<td>0</td>
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<tr>
<td>8. Rabbits</td>
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<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>9. Non-human Primate</td>
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<td>0</td>
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<td>0</td>
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</tr>
<tr>
<td>10. Sheep</td>
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<tr>
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<td>0</td>
<td>0</td>
<td>18</td>
</tr>
</tbody>
</table>

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(Chief Executive Officer or Legally Responsible Institutional Official)

--- or Print

DATE SIGNED

11/26/02
United States Department of Agriculture
Animal and Plant Health Inspection Service

Annual Report of Research Facility

( Type or Print )

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

<table>
<thead>
<tr>
<th>A. Animals Covered By The Animal Welfare Regulations</th>
<th>B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet</th>
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<th>F. Total Number of Animals (Columns \textbf{C} + \textbf{D} + \textbf{E})</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
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<tr>
<td>5. Cats</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>7. Hamsters</td>
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<td></td>
</tr>
<tr>
<td>8. Rabbits</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Non-human Primate</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Sheep</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>11. Pigs</td>
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<tr>
<td>13. Other Animals</td>
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</tr>
<tr>
<td>14. Total Number of Animals</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Assurance Statements

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Certification by Headquarters Research Facility Official

Signed: 1/02
### Annual Report of Research Facility

**TYPE OR PRINT**

**United States Department of Agriculture**

**Animal and Plant Health Inspection Service**

**Report of Animals Used by or Under Control of Research Facility**

**Contact Information**

- **Facility Location(s):**
  - CAROLINAS MEDICAL CENTER
  - CHARLOTTE, NC 28232

**Report of Animals Used by or Under Control of Research Facility**

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>Number of Animals</th>
<th>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</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td>4</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Cats</td>
<td>5</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Guinea Pigs</td>
<td>6</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Hamsters</td>
<td>7</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Rabbits</td>
<td>8</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Non-Human Primates</td>
<td>9</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Sheep</td>
<td>10</td>
<td>120</td>
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</tr>
<tr>
<td>Pigs</td>
<td>11</td>
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<td>Other Farm Animals</td>
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<tr>
<td>Other Animals</td>
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<td>120</td>
</tr>
<tr>
<td>Sand Rats</td>
<td>13</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Ferrets</td>
<td>12</td>
<td>120</td>
<td>120</td>
</tr>
</tbody>
</table>

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**Certification by Headquarters Research Facility Officer**

(Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)
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FACILITY LOCATIONS (Sites) - See Attached Listing

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<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet</th>
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<tr>
<td>Cats</td>
<td>0</td>
</tr>
<tr>
<td>Guinea Pigs</td>
<td>0</td>
</tr>
<tr>
<td>Hamsters</td>
<td>0</td>
</tr>
<tr>
<td>Rabbits</td>
<td>0</td>
</tr>
<tr>
<td>Non-human Primates</td>
<td>0</td>
</tr>
<tr>
<td>Sheep</td>
<td>0</td>
</tr>
<tr>
<td>Pigs</td>
<td>0</td>
</tr>
<tr>
<td>Other Farm Animals</td>
<td>0</td>
</tr>
<tr>
<td>Other Animals</td>
<td>0</td>
</tr>
</tbody>
</table>

ASSURANCE STATEMENTS

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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

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

AL (Type or Print) D WHERE SIGNED

11-21-02
## FACILITY LOCATIONS

### Facility # 1

<table>
<thead>
<tr>
<th>Physical Address</th>
<th>Mailing Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-12 Capitola Drive</td>
<td>P.O. Box 13501</td>
</tr>
<tr>
<td>Durham, NC 27709</td>
<td>RTP, NC 27709</td>
</tr>
</tbody>
</table>

### Facility # 2

<table>
<thead>
<tr>
<th>Physical Address</th>
<th>Mailing Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>601 Keystone Park Drive</td>
<td>P.O. Box 13501</td>
</tr>
<tr>
<td>Suite 100</td>
<td>RTP, NC 27709</td>
</tr>
<tr>
<td>Durham, NC 27713</td>
<td></td>
</tr>
</tbody>
</table>
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in fines up to $1,000 per day for each violative act.

1. CERTIFICATE NUMBER: 55-R-0111
   CUSTOMER NUMBER: 959

Davidson College
P.O. Box 7118
Davidson, NC 28035
Telephone: (704) -894-2617

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 animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet

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 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).

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 NUMBER OF ANIMALS
   ( COLUMNS C + D + E )

4. Dogs
5. Cats
6. Guinea Pigs
7. Hamsters
8. Rabbits
9. Non-human Primate
10. Sheep
11. Pigs
12. Other Farm Animals
13. Other Animals

Gerbils 20 319

ASSURANCE STATEMENTS

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(Chief Executive Officer or Legally Responsible Institutional Official)

DATE SIGNED

9/25/02
### ANNUAL REPORT OF RESEARCH FACILITY

**TYPE OR PRINT**

#### 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)**

<table>
<thead>
<tr>
<th>Gaston College/Vet Tech Building</th>
<th>Gaston County Animal Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>222 Leisure Lane</td>
<td>Dallas, NC 28034</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>A. Animals Covered By The Animal Welfare Regulations</th>
<th>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</th>
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<th>F. TOTAL NO. OF ANIMALS (Cols. C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>0</td>
<td>54</td>
<td>120</td>
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<tr>
<td>5. Cats</td>
<td>0</td>
<td>50</td>
<td>49</td>
<td>0</td>
<td>59</td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td>0</td>
<td>3</td>
<td>7</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>7. Hamsters</td>
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<td>0</td>
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</tr>
<tr>
<td>8. Rabbits</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>9. Non-Human Primates</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10. Sheep</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11. Pigs</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>12. Other Farm Animals</td>
<td>Horses</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Cattle</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

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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)

APHIS FORM 7023

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

PART 1 - HEADQUARTERS

DATE SIGNED

11/7/80
## ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

### FACILITY LOCATIONS/sites)

- **Gaston College/Vet Tech Building**
  - 222 Leisure Lane
  - Dallas, NC 28034

- **Gaston County Animal Control**
  - Dallas, NC 28034

### REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY

(Associate additional sheets if necessary or use APHIS FORM 7023A)

<table>
<thead>
<tr>
<th>A. Animals Covered</th>
<th>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</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>D. Number of animals upon which teaching, research, experiments, or tests were conducted involving pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used</th>
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<th>F. TOTAL NO. OF ANIMALS (Cols. C + D + E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
<td>0</td>
<td>54</td>
<td>120</td>
<td>0</td>
<td>154</td>
</tr>
<tr>
<td>5. Cats</td>
<td>0</td>
<td>10</td>
<td>69</td>
<td>0</td>
<td>59</td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td>0</td>
<td>3</td>
<td>7</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>7. Hamsters</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>8. Rabbits</td>
<td>0</td>
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<td>7</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>9. Non-Human Primates</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10. Sheep</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>11. Pigs</td>
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<td>12. Other Farm Animals</td>
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</tr>
<tr>
<td>Horses</td>
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<td>5</td>
<td>0</td>
<td>0</td>
<td>5</td>
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<tr>
<td>13. Other Animals</td>
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<td></td>
</tr>
<tr>
<td>Cattle</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

### ASSURANCE STATEMENTS

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### CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

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

<table>
<thead>
<tr>
<th>OFFICIAL'S NAME OR LEGAL RESPONSIBLE PERSON</th>
<th>POSITION OR OFFICE</th>
<th>DATE SIGNED</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Name]</td>
<td>[Position]</td>
<td>11/5/2020</td>
</tr>
</tbody>
</table>

APHIS FORM 7023 (Replaces VS Form 10-23 (Oct 88), which is obsolete) PART 1 - HEADQUARTERS

(AUG 91)
UNIFIED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

1. CERTIFICATE NUMBER: 55-R-0115
CUSTOMER NUMBER: 1638

Molecular Toxicology, Inc.
157 Industrial Park Dr.
Boone, NC 28607
Telephone: (704)-249-2099

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)

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
<th>Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet</th>
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<th>TOTAL NUMBER OF ANIMALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Dogs</td>
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<td></td>
<td></td>
<td></td>
<td>636</td>
</tr>
<tr>
<td>5. Cats</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>6. Guinea Pigs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Hamsters</td>
<td>636</td>
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<td>8. Rabbits</td>
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<td></td>
</tr>
<tr>
<td>9. Non-human Primate</td>
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<td></td>
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<tr>
<td>10. Sheep</td>
<td></td>
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</tr>
<tr>
<td>11. Pigs</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>12. Other Farm Animals</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>13. Other Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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ASSURANCE STATEMENTS

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

DATE SIGNED 10-29-01

(AUG 91)
**ANNUAL REPORT OF RESEARCH FACILITY**  
*TYPE OR PRINT*

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.)

See Attached Listing

**FACILITY LOCATIONS**

Suite 460, same address as above

### REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY

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<td></td>
<td></td>
</tr>
<tr>
<td>Cats</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guinea Pigs</td>
<td>15</td>
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<tr>
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</tr>
<tr>
<td>Non-Human Primates</td>
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<tr>
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<td></td>
<td></td>
</tr>
<tr>
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(Chief Executive Officer or Legally Responsible Institutional official)
**ANNUAL REPORT OF RESEARCH FACILITY**

(TYPE OR PRINT)

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**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY**

(Attach additional sheets if necessary)

<table>
<thead>
<tr>
<th>Animals Covered By The Animal Welfare Regulations</th>
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<th>Total Number of Animals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dogs</td>
<td>☐</td>
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<tr>
<td>Cats</td>
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</tr>
<tr>
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<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Non-human Primate</td>
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<td>☐</td>
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<td>☐</td>
<td>☐</td>
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<tr>
<td>Pigs</td>
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<td>☐</td>
</tr>
<tr>
<td>Other Farm Animals</td>
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<td>☐</td>
</tr>
<tr>
<td>Other Animals</td>
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(Chief Executive Officer or Legally Responsible Institutional Official)

---

**DATE SIGNED**

---

(AUG 91)
This report is required by law (7 USC 2143). Failure to report according to the regulations can result in heavy fines. Failure to report according to the regulations DEC 9 9 2002 See attached form for additional information

Hybrizyme Corp.
2801 Blue Ridge Rd-Suite G70
Raleigh, NC 27607
Telephone: (999) -999-9999

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

A. Animals Covered By The Animal Welfare Regulations

4. Dogs
5. Cats
6. Guinea Pigs
7. Hamsters
8. Rabbits
9. Non-human Primate
10. Sheep
11. Pigs
12. Other Farm Animals
13. Other Animals

4. Dogs
5. Cats
6. Guinea Pigs
7. Hamsters
8. Rabbits
9. Non-human Primate
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.

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

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(NAME OF CERTIFYING OFFICIAL)

DATE SIGNED: 12/2/02
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 (Site) - See Attached Listing: N/A

4. Dogs
5. Cats
6. Guinea Pigs
7. Hamsters
8. Rabbits
9. Non-human Primate
10. Sheep
11. Pigs
12. Other Farm Animals
13. Other Animals

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

Print DATE SIGNED

APR 12/2/02
# ANNUAL REPORT OF RESEARCH FACILITY

**TYPE OR PRINT**

## 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)

See Attached Listing

See Attached

## REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY

<table>
<thead>
<tr>
<th>A. Animals Covered by the Animal Welfare Regulations</th>
<th>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</th>
<th>C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs</th>
<th>D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain, distress to the animals and for which appropriate analgesic, anesthetic, or tranquilizing drugs were used</th>
<th>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 analgesic, anesthetic, 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)</th>
<th>F. TOTAL NO. OF ANIMALS (Col. C + D + E)</th>
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</thead>
<tbody>
<tr>
<td>4. Dogs</td>
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<td>5. Cats</td>
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<tr>
<td>6. Guinea Pigs</td>
<td>2668</td>
<td>1922**</td>
<td>4590</td>
<td></td>
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<tr>
<td>7. Hamsters</td>
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<td>8. Rabbits</td>
<td>2311</td>
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<td>9. Non-Human Primates</td>
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</table>

### 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**

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

**DATE SIGNED**

12/12/02

AF (Oct 88), which is obsolete

PART 1 - HEADQUARTERS
Column E Explanation

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

1. Registration Number: 55-R-0109

2. Number of animals used in this study.

3. Species (common name) Guinea pigs of animals used in the study.

4. Explain the procedure producing pain and/or distress.
   a. Diphtheria potency - To determine the anti-diphtheria potency of intramuscular and intravenous products using neutralization methodology.
   b. Tetanus potency - To quantitate the potency of Tetanus Immune Globulin (Human) by using neutralization methodology.

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)

   This testing is mandated by Bayer Product License Testing Requirements. Administration of anesthetic, analgesic, or tranquilizer drugs could interfere with the outcome of the testing.

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 FDA CFR 21 CFR 640.100