SH

According to the Paperwork Reduction Act of 1995, an agency may not conduct or aponeor, and a person is not required to respond to, a collection of information unless
it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0038. The time required to complete this information
collection is estimated to average 2 hours per response, including the time for inviewing instructions, searching existing data sources, gethering and maintaining the data
needed, and completing and reviewing the collection of information.

OMB APPROVED

This report is required by law (7 U.S.C. 2143). Follure to report according to the regulations can result in an order to cense and desist and to be subject to penalties as provided for in Section 2150.

No. 0180-DOA-AN

Flacal Year: 2009

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

REGISTRATION NUMBER: 33-R-0029

Customer Number: 683

Z. HEADQUARTERS RESEARCH FACILITY (Name and Address) as registered with USDA include ZIP Code)

University Of Illinois Al Urbana-Champaign 1 Observatory Belliding 901 S. Mathaws Urbane, IL 81801

Telephane: (217) 333 2564

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

FACILITY LOCATIONS (Sites) See Attached Usling

- University of Illinois

Animals Covered By The Animal Welfare Regulations	Number of animals being bred, conditioned, or held for use in resching, leating, experiments, research, or surgery but not yell used for such purposes.	C. Number of enimels upon which is exhibit, research, experiments, or leasts worn conducted involving as pain, distress, or use of pain-relieding daugs.	D. Number of animata upon which a spartments, is acting, research, auggry, or lests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analysisk, or invocutions drugs were used.	E. Number of enimels upon which teaching experiments, research, surgery or tracts were conducted involving occumpanying pain or distress to the enimels and for which the use of appropriate enesthetic, enalgests, or arequitizing arups would have adversely affected the procedures, results, or interpretation of the procedures, results, in experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these enimels and the re-search such drugs were not used must be effected to this report.)	F. TOTAL NUMBER OF ANIMALS (Cots. C + b + E)
4. Dogs		_ 158 _	408		566
5. Cals		149	1.63		- 31-2 -
6. Guinea Pigs		18		12	30-
7. Hamsters					
8. Rabbita		138	40		178
9. Non-human Primates				1	
10. Sheep		39			3.9
17. Pigs		559	222	152	933
12. Other Farm Animale					
Cattle		69	1 1		8.0
13. Other Animals					
Bats		10			10
Chinchill:	1		32		32
Ferret			4		4

1.) Professionally exceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analysistic, and banquilisting drugs, prior to, during, and following actual research, teaching, leading, surgery, or experimentation were followed by this research facility.

2.) Each principal investigator has considered atternatives 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 summery of all such exceptions is attached to this ennual report. In addition to identifying the IACUC approved exceptions, this summery includes a brief explanation of the exceptions, as well as the species and number of animals affected.

4.) The attending veterinarian for this research famility has appropriate authority to assum the provisions of adequate veterinary care and in oversee the adequacy of other aspects of assumations and use.

CPRIMICATION by PRAIMMENTAINED RESEARCH PACILITY DEDICAL
(Chief Executive Officer (C.E.O.) or Lagelly Responsible insolutional Official (LO.))
I needly that the shore is time, context, and complete (7.U.S.C. Section 2142)

(b)(6), (b)(7)(c)

11-30-09

12/28/2009

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0036. The time required to collection is estimated to everage 2 hours per response, including the time for reviewing inchrictions, searching existing data sources, galt needed, and complicating and reviewing the collection of information.	complete this information	OMB APPROVED 0579.0036
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 decist and to be subject to penalties as provided for in Section 2150.	Interagency Report Control No. 0180-DOA-AN	Flucal Year: 2009

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

REGISTRATION NUMBER: 33-R-0029

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

University Of Illinois At Urbano-Chempaign 1 Observatory Building 801 S. Methewa Urbana, IL. 51801

Telephone. (217) 333 2564

Animals Covered By The Animal Welfare Regulations	Number of animals being bred, conditioned, or held for use in leaching, troubing, experiments, respects, or nurgery but not yet used for such purposess.	Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain relieving druge.	D. Number of animals upon which experiments, traching, research, surgery, or facts were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgedic, or banquillding 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 anastheto, analgesis, or tranquillaing drugs would have adversely affected the procedures, results, or interpretation of the search, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be effected to this report.)	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
Goat		2			2
Horse		34			34
Llama		2			
M axsupia1	phosnup	217			217
•					
4.2					
201					
				5/	

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgorics, and tranquisting drugs, prior to during and following actual research, leaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- 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 investigation and approved by the incititional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to data annual report. In addition to the exceptions, this automary includes a brief exclanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provisions of adequate veterinary care and to oversee the adequacy of other capacity of animal care and

	(Ch) of Proc	PICATION BY HEADQUARTERS REBEARCH FACILITY OFFICIAL - 네뉴는 이해는~ (C. B.O.), or Legally Responsible Institutional Official (B.O.)) - mai die abow is true, corpect, and complete (7 U.S.C. Section 2143).	
SIGNATURE OF C.E.O. OR I.O.	 	NAME AND THE OF C.E.O. OR I.O. (Type or Pring)	DATE DIGNED
	150		
	850		

AUG 2039

NP 12/28/2009

APHIS Form 7023 Site Addendum for FY: 2009

Registration Number: 33-R-0029 Customer ID Number: 603

Facility Business Address Information:

University Of Illinois At Urbana-Champaign 1 Observatory Building .901 S. Mathews Urbana, IL 61801

Telephone: (217) 333 2564

Facilities Site(s) Address Information:

Site Code(s):

001 1 Observatory Bldg 901 S Mathews Urbana, IL 61801 Assigned Inspector: Susan Kingston, D V M

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: 33-R-0029
2.	Number12 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.
	The Guinea pigs were challenged via intra-nasal cannula with Streptococcus equi ssp. equi.
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 question 6 below).
	These experiments were designed to evaluate the efficacy of the Guinea pig as a model for the equine disease, strangles. As Guinea pigs are subject to respiratory infections with Streptococcus equi ssp. zooepidemicus, we hypothesized that they would be subject to S. equi infection. They were sedated for this procedure, however, they were not administered any analgesics post-challenge as the use of analgesics may alter the immune response.
	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):
^	OFD.

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: 33-R-0029
2. Number104 of animals used in this study.
3. Species (common name)swine of animals used in the study.
4. Explain the procedure producing pain and/or distress.
Pigs received 1 daily dose during 3 consecutive days of a pathogenic E. coli; these doses were delivered orally, with a concentration of 10 ¹⁰ cfu per dose. The experiment continued for 10 to 12 days after the first challenge. The infection model we used causes light to mild diarrhea and does not induce mortality. In fact, this model actually allows pigs to be in recovery process by the end of the experiment.
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 question 6 below).
The results we require depend on a series of animal responses to evaluate both the resistance against the infection and the ability to recover. Those responses can be evaluated as the growth rate, severity of the diarrhea, and changes in bacterial populations, among others. The use of antibiotics or therapeutic drugs will directly interfere with those animal's responses we need to evaluate.
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

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. Re	gistration Number: 33-R-0029
2. Nu	mber48 of animals used in this study.
3. Sp	ecies (common name)pigs of animals used in the study.
4. Ex	plain the procedure producing pain and/or distress.
inf an be	glets were used in a study to assess brain and cognitive development and the effects of neonatal fection on learning and memory. Some piglets were treated with poly I:C to mimic a viral infection of others received LPS to mimic a bacterial infection. Poly I:C and LPS induce moderate transient chavioral changes lasting 4-8 hours reminiscent of an acute infection. The behavioral effects are bught to be induced by the inflammatory response to poly I:C and LPS.
us	ovide scientific justification why pain and/or distress could not be relieved. State methods or means ed to determine that pain and/or distress relief would interfere with test results. (For Federally andated testing, see question 6 below).
bra and	e purpose of the study is to investigate how a viral or bacterial infection in the neonatal period affects in and cognitive development. The behavioral changes induced by poly I:C and LPS are moderate I transient lasting only a few hours. Administering a drug (e.g., NSAID) to inhibit inflammation and sk the behavioral effects of poly I:C or LPS would obviate testing the hypothesis.
	nat, if any, federal regulations require this procedure? Cite the agency, the Code of Federal gulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):
Agen	CV CER