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**OMB APPROVED**  
0579-0036

Interagency Report Control No. 0180-DOA-AN

Fiscal year: 2022

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

**Annual Report of Research Facility  
Column E Explanation**

*(TYPE OR PRINT)*

**This information is required by law (7 U.S.C. 2143 and 9 C.F.R. §2.36). Failure to report according to the regulations can result in an order to cease and desist.**

**1. REGISTRATION NUMBER**

31-R-0028

**2. Research Facility Headquarters address**

CASE WESTERN RESERVE UNIVERSITY  
10900 EUCLID AVE, CLEVELAND, OH 44106  
Telephone: 216 368-4972

**3. Number of animals used in the study.**

1

**4. Species (common name) of animals used in the study.**

Guinea Pig

**5. Explain the procedure producing pain and distress.**

This is a peritonitis model in order to harvest monocytes. In this study we will be evaluating illiciting neutrophils from a guinea pig and utilizing them in a phagocytosis assay to determine if this species is appropriate to use in a future model of human pathogenesis. The animal is euthanized 18 hours after the induction of peritonitis.

**6. Provide the scientific justification for not providing the appropriate anesthetics, analgesics, or tranquilizing drugs during procedures where the animal experienced accompanying pain or distress greater than momentary or slight.**

The use of analgesics (such as anti-inflammatory agents) would influence and reduce the number of monocytes present. Therefore, it is not feasible to give analgesics. Similarly, the use of analgesics such as buprenorphine have been known to reduce the inflammatory response. Buprenorphine decreases the CCL2-mediated chemotactic response of monocytes. Furthermore, the use of tranquilizers or prolonged sedation or for a guinea pig with peritonitis carry the risk of death and is not suitable for this model.

**7. 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** N/A

**CFR** N/A