



**Laboratory Animal Resources Center**  
Alternatives to the Use of Animals in Research  
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## ALTERNATIVES TO THE USE OF ANIMALS IN RESEARCH

The United States Department of Agriculture, USDA, requires that investigators proposing to use animals in research studies must first identify and specify by name at least two sources or databases that have been used in determination of the following:

1. That the proposed research is not duplicative of research which has already been done;
2. That alternatives to research using animals are not appropriate; and
3. That for all Category D and Category E studies, alternatives to the use of procedures that may cause more than momentary or slight pain or distress are not appropriate or available.

Some recommended sources:

- [Animal Welfare Information Center](#)
- [Alternative to Ascites Monoclonal Antibody Production](#)
- [BioMedNet Mouse Knockout & Mutation Database](#)
- [EMBASE](#)
- [National Agricultural Library AGRICOLA Article Citation Database](#)
- [National Library of Medicine - NLM's Databases & Electronic Information Sources](#)  
(includes MEDLINE)
- [PubMed - National Library of Medicine](#)
- [University of California, Davis, Center for Animal Alternatives](#)