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Animal Facilities Author Jack  
Hessler Published On  
November 2008

# **Planning And Designing Research Animal Facilities Author Jack Hessler Published On November 2008**

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### **Planning And Designing Research Animal**

Research institutions have or are

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planning to build, expand and renovate  
animal research facilities to keep up with  
the demands of biomedical research  
caused in part by growth in the use of  
genetically altered rodents and the  
upsurge of research in infectious  
diseases.

## **Planning and Designing Research Animal Facilities ...**

For this reason, Planning and Designing  
Research Animal Facilities is not  
intended to be a “how to” book. The  
goal is to cover the basic programmatic  
requirements of animal research  
facilities, provide ideas for meeting  
those requirements while, hopefully,  
stimulating the creative process in which  
designers in consultation with those who  
work in animal research facilities  
generate even ...

## **Planning and Designing Research Animal Facilities - 1st ...**

Designing animal studies to improve  
research reproducibility and reduce

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animal use Jun 02, 2020 Animal  
experimentation in research: between  
animal welfare and scientific quality  
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## **Animal-based research: New experimental design for ...**

Designing Animal Studies to Improve  
Research Reproducibility and Reduce  
Animal Use June 3, 2020 — At the  
invitation of the University of Bern,  
international experts worked out new ...

## **Animal-based research: New experimental design for an ...**

In research, the results of studies must  
be precise and reproducible. Behavioural  
scientists at the University of Münster  
have been able to demonstrate that a  
new experimental design can improve ...

## **Animal-based research: New experimental design for an ...**

Design of the Animal Experiment  
Research Plan. A description of the  
experimental manipulations required to  
address the problem statement,

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objectives, and hypotheses should be  
carefully devised and documented ( Keppel 1991).

## **Practical Aspects of Experimental Design in Animal Research**

Effective planning and design should actively engage all stakeholders. It should include input from experienced animal care design personnel, engineering, operations, management, animal care staff, research staff, maintenance staff, Environmental, Health & Safety (EH&S) and campus ergonomists.

## **Animal Research Facilities Ergonomics Design Guidelines ...**

Animal-based research: Scientists develop new experimental design for an improved reproducibility The reproducibility and validity of studies involving animals is improved by carrying out smaller, independent 'mini-experiments'

**Animal-based research: Scientists  
develop new experimental ...**

This discussion pertains primarily to select agent research and provides (1) an overview of the guidelines and standards pertinent to the design and construction of biocontainment research facilities using animals, (2) design considerations appropriate for these facilities, (3) special requirements associated with BSL-3Ag agricultural research, and (4) information to prepare for the use of a ...

**Facility design considerations for  
select agent animal ...**

Animal research and animal research facilities are critical to the biomedical research enterprise. Animal species are used in every stage of the research and development effort-from discovery, to development and safety testing, to clinical trials, and to manufacture-because their biological systems, genetic structures, and immunological responses, in various ways, closely

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mirror ours as a species.

## **Animal Research Facility | WBDG - Whole Building Design Guide**

The Three Rs (3Rs) in relation to science are guiding principles for more ethical use of animals in testing. They were first described by W. M. S. Russell and R. L. Burch in 1959. The 3Rs are:

Replacement: methods which avoid or replace the use of animals in research;

Reduction: use of methods that enable researchers to obtain comparable levels of information from fewer animals, or to obtain ...

## **The Three Rs (animals) - Wikipedia**

I. Master planning  
A. Rationale for Master Planning. When it is recognized that major changes need to be made to a program's animal facility or facilities, it is wise to look at the animal-care and -use program as a whole because animal facilities are not only expensive to operate; they are also among the most expensive research spaces to build or

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## **Master Planning and Animal Facility Location - ScienceDirect**

Although individual animals are often the experimental units assigned to the treatments, a crossover experimental design may involve assigning an animal to treatments X, Y, and Z sequentially in random order, in which case the experimental unit is the animal for a period of time.

## **Guidelines for the Design and Statistical Analysis of ...**

affecting biomedical research facility and animal research facility design and construction, and state-of-the-art technological changes. It also incorporates the NIH Planning and Programmatic Guidelines, resulting in a consolidated planning and design document for the NIH design and construction program. Spring 2003  
Preface 1



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## **NIH Design Policy and Guidelines**

Research often uses isolated tissues from animals to study the interaction of cells within the body. While these studies do not involve experiments on living animals, the animals used are bred specifically for scientific purposes, and this work also classes as animal experimentation.

## **Experimental design and analysis - ari.info**

The Strategic Planning Poster from FRAME (Fund for the Replacement of Animals in Medical Experiments) provides a flowchart with good general advice on planning animal research. 33 PREPARE is designed to provide a detailed, universally relevant checklist which reduces the risk of problems, artefacts or misunderstandings arising once studies have begun.

## **PREPARE: guidelines for planning animal research and ...**

PREPARE (Planning Research and

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Experimental Procedures on Animals:  
Recommendations for Excellence). They  
are designed to be applicable to all  
types of animal research and testing,  
including field studies, but they also  
contain topics concerning the manage-  
ment of animal facilities, since in-house  
experiments are dependent upon their  
quality.

### **PREPARE: guidelines for planning animal The Author(s) 2017 ...**

The purpose of this resource book is to assist in the design and implementation of animal research protocols involving exercise. The book addresses these experimental paradigms in the context of U.S. national regulatory requirements for animal welfare.

### **Resource Book for the Design of Animal Exercise Protocols**

There are issues with the reproducibility of animal studies and whilst there are many potential explanations, experimental design and the reporting of

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studies have been highlighted as major contributing factors. If a study is not designed to yield robust results and publications are not reported with enough detail, the animals and research resources used in that study are

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