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There's a new book listed at least once a day, but often times there are many listed in one day, and you can download one or all of them.

## **Planning And Designing Research Animal**

Research institutions have or are planning to build, expand and renovate animal research facilities to keep up with the

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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

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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**

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1st ...**  
Designing animal  
studies to improve  
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reproducibility and  
reduce animal use Jun  
02, 2020 Animal  
experimentation in  
research: between  
animal welfare and  
scientific quality

**Animal-based  
research: New  
experimental design  
for ...**  
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Studies to Improve  
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

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precise and  
reproducible.  
Behavioural scientists  
at the University of  
Münster have been  
able to demonstrate  
that a new  
experimental design  
can improve ...

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Hoskins  
**Animal-based  
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for an ...**

Design of the Animal  
Experiment Research  
Plan. A description of

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the experimental manipulations required to address the problem statement, 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

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experienced animal care design personnel, engineering, operations, management, animal care staff, research staff, maintenance staff, Environmental, Health & Safety (EH&S) and campus ergonomists.

Hessler editor

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

Animal-based research:

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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'  
Hessler editor

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

This discussion  
*Page 14/29*

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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

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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-



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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 mirror ours as a species.

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

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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

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animals, or to obtain ...

## Research Animal

### **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

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expensive to operate;  
they are also among  
the most expensive  
research spaces to  
build or renovate.

**Master Planning and  
Animal Facility**

**Location - November 2008**

**ScienceDirect**

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Hosler editor  
Although individual  
animals are often the  
experimental units  
assigned to the  
treatments, a  
crossover experimental  
design may involve

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Designing  
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 ...**

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Hessler  
affecting biomedical  
research facility and  
animal research facility  
design and  
construction, and state-

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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

## **NIH Design Policy and Guidelines**

Research often uses  
isolated tissues from

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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  
*Page 23/29*

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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.



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

PREPARE (Planning Research and 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

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Designing  
management of  
animal facilities, since  
in-house experiments  
are dependent upon  
their quality.

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

By Jack  
The purpose of this  
resource book is to  
assist in the design and  
implementation of  
animal research  
protocols involving  
exercise. The book

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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

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and the reporting of  
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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[d41d8cd98f00b204e98](https://doi.org/10.1016/j.jamv.2008.08.001)  
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