

How to Write an Effective and Successful animal use Application

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Benefits you can get from your protocol evaluation

- **Confirm following ethical guidelines**
 - **Scientific merits** → **Publishing**
 - **Technical and training support**
-
- ```
graph LR; A[Scientific merits] --> B[Publishing]; C[ethical guidelines] --> B;
```
- The diagram illustrates the process of publishing. It features three main components: 'Confirm following ethical guidelines', 'Scientific merits', and 'Publishing'. 'Scientific merits' is connected to 'Publishing' by a horizontal orange arrow. 'ethical guidelines' is connected to 'Publishing' by a vertical orange arrow pointing downwards. The 'Publishing' text is enclosed in a red dashed rectangular box.



**How can you get application  
form?**



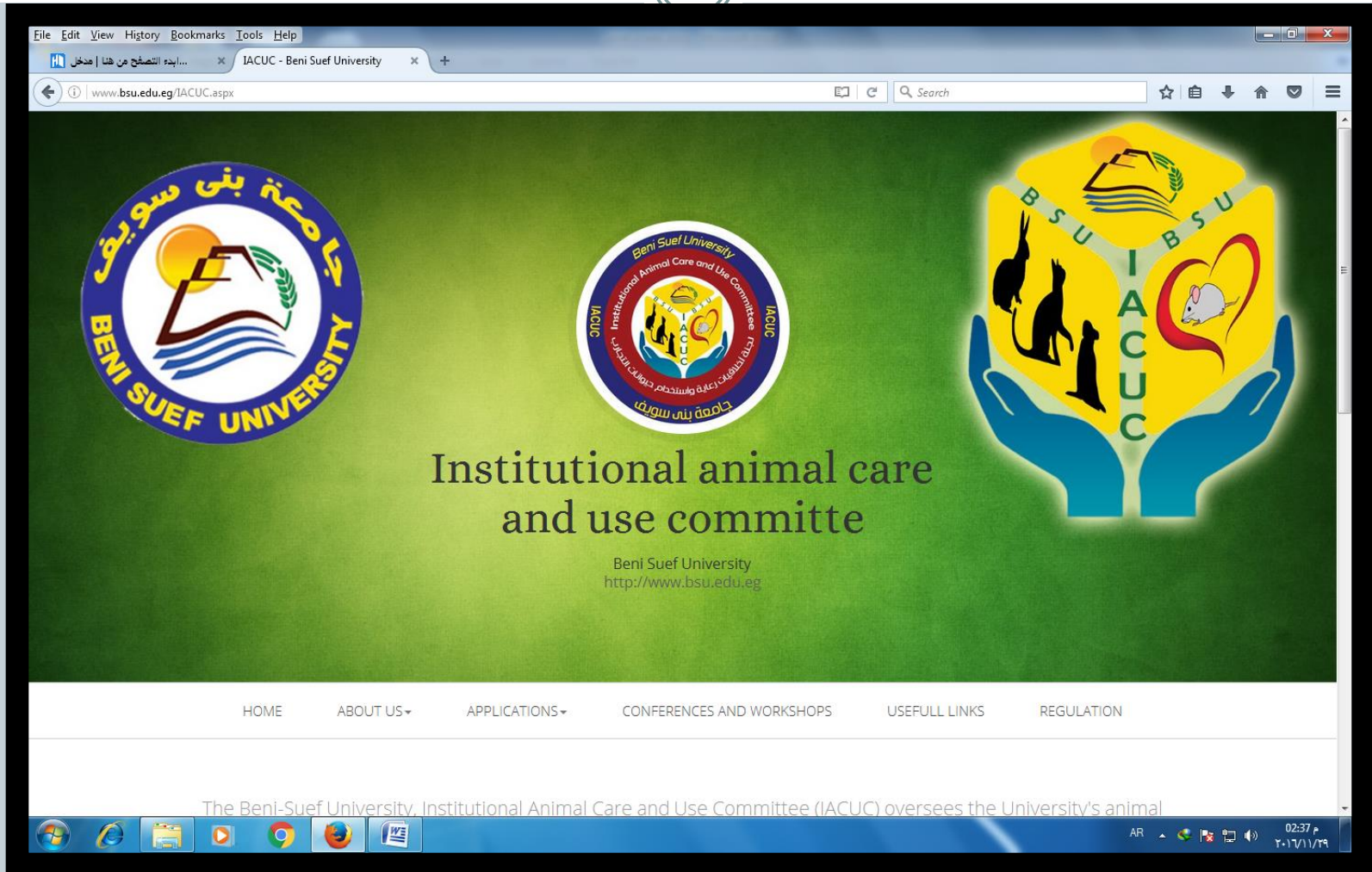
**Beni Suef  
Institutional Animal Care and Use  
Committee  
(BSU-IACUC)**

[www.bsu.edu.eg/IACUC.asp](http://www.bsu.edu.eg/IACUC.asp)

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# Contents of BSU-IACUC






The screenshot shows a web browser window displaying the website for the Institutional Animal Care and Use Committee (IACUC) at Beni Suez University. The browser's address bar shows the URL [www.bsu.edu.eg/IACUC.aspx](http://www.bsu.edu.eg/IACUC.aspx). The website features a green background with three logos: the Beni Suez University logo on the left, the IACUC logo in the center, and a stylized logo on the right depicting hands holding a yellow hexagon with animal silhouettes and the letters 'BSU' and 'IACUC'. The main text on the page reads "Institutional animal care and use committee" and "Beni Suez University" with the URL <http://www.bsu.edu.eg>. A navigation menu at the bottom includes links for HOME, ABOUT US, APPLICATIONS, CONFERENCES AND WORKSHOPS, USEFULL LINKS, and REGULATION. The Windows taskbar at the bottom shows the system tray with the date 2017/11/29 and time 02:37 PM.

File Edit View History Bookmarks Tools Help

ابدء التصفح من هنا | عدل IACUC - Beni Suez University

www.bsu.edu.eg/IACUC.aspx Search



Institutional animal care  
and use committee

Beni Suez University  
<http://www.bsu.edu.eg>

HOME ABOUT US APPLICATIONS CONFERENCES AND WORKSHOPS USEFULL LINKS REGULATION

The Beni-Suez University, Institutional Animal Care and Use Committee (IACUC) oversees the University's animal

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# Application forms

The screenshot shows a web browser window with the URL [www.bsu.edu.eg/IACUC.aspx](http://www.bsu.edu.eg/IACUC.aspx). The page features a navigation menu with the following items: HOME, ABOUT US, APPLICATIONS, CONFERENCES AND WORKSHOPS, USEFULL LINKS, and REGULATION. The 'APPLICATIONS' menu item is highlighted with a dashed green circle, and a dropdown menu is visible below it containing 'APPLICATION FORM' and 'FISH APPLICATION FORM'. The main content area contains a paragraph of text about the IACUC's role in overseeing animal care and use at Beni-Suef University. Below the text is a section titled 'SUB-COMMITTEES' with a sub-section for the 'FACULTY OF VETERINARY' and a 'READ MORE' button. The browser's address bar shows the URL [www.bsu.edu.eg/Content.aspx?section\\_id=873&cat\\_id=43&lang=en](http://www.bsu.edu.eg/Content.aspx?section_id=873&cat_id=43&lang=en). The system tray at the bottom right shows the time as 02:52 PM on 2017/11/29.

File Edit View History Bookmarks Tools Help

IACUC - Beni Suef University

www.bsu.edu.eg/IACUC.aspx

HOME ABOUT US APPLICATIONS CONFERENCES AND WORKSHOPS USEFULL LINKS REGULATION

APPLICATION FORM  
FISH APPLICATION FORM

The Beni-Suef University, Institutional Animal Care and Use Committee (IACUC) oversees the University's animal care and use program ensuring the appropriate care and use of animals used for research, testing and teaching. The IACUC is also responsible for reviewing and approving requests to use vertebrate and aquatic animals, and ensuring compliance with the Guide for the Care and Use of Laboratory Animals 8th Edition 2011 (the Guide). In addition, the IACUC inspects all areas where animals are housed and used, and oversees training and educational programs. The IACUC serves as an information resource on animal welfare concerns for institutional personnel and community.

SUB-COMMITTEES

**FACULTY OF VETERINARY**

faculty of veterinary

READ MORE

www.bsu.edu.eg/Content.aspx?section\_id=873&cat\_id=43&lang=en

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## **Main components of application form**

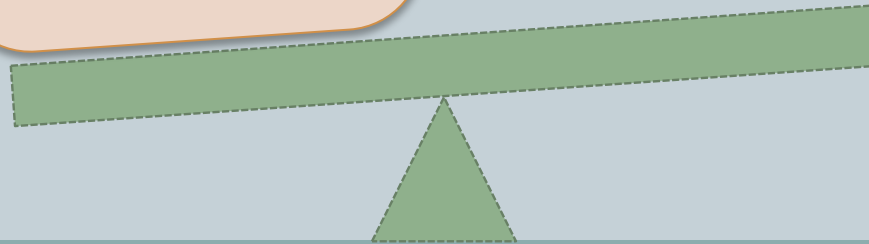
- **General information**
- **Literature Search for Duplication**
- **Categories of invasiveness**
- **USDA pain category**
- **The Three R's**
- **Humane endpoints and Euthanasia**

# Basis of your protocol evaluation

**Novelty**

**Animal  
suffering**

**Scientific  
and  
scio-  
economic  
impacts**





# Replacement alternatives

- Replacing “higher” animals with “lower” animals. Microorganisms, plants, eggs, reptiles, amphibians, and invertebrates may be used in some studies to replace warm-blooded animals. Alternatively, live animals may be replaced with non-animal models such as:
- Dummies for an introduction for dissection during teaching the structure of the animal
- Mechanical or computer models
- Audiovisual aids
- In vitro modeling

# Reduction alternatives



- **Minimizing the number of animals needed to perform an experiment or teach a concept, using replacement whenever possible. Methods to achieve this may include:**
- **Performing pilot studies to determine some of the potential problems in an experiment before numerous animals are used**
- **Gathering a maximum amount of information from each animal, perhaps gathering data for more than one experiment concurrently**

## Reduction alternatives

- **Consulting with a statistician to use only the numbers of animals required to achieve significance**
- **Minimizing variables such as disease, stress, diet, genetics, etc., that may affect experimental results**
- **Performing appropriate literature searches and consulting with colleagues to ensure that experiments are not duplicated**
- **Using the appropriate species of animal so that useful data are collected**

# Refinement alternatives

- **Refining experimental protocols to minimize pain or distress whenever possible.**

**Examples of refinement may include:**

- **Using proper handling techniques and receiving adequate training prior to performing a procedure**

**Ensuring that:**

- – **Procedures to be performed on the animal are reasonable for that species**
- – **Drug doses are correct and that the drugs used are not expired**
- **Identifying pain and distress and making plans for preventing or relieving it using appropriate analgesics and anesthetics for potentially painful procedures**