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

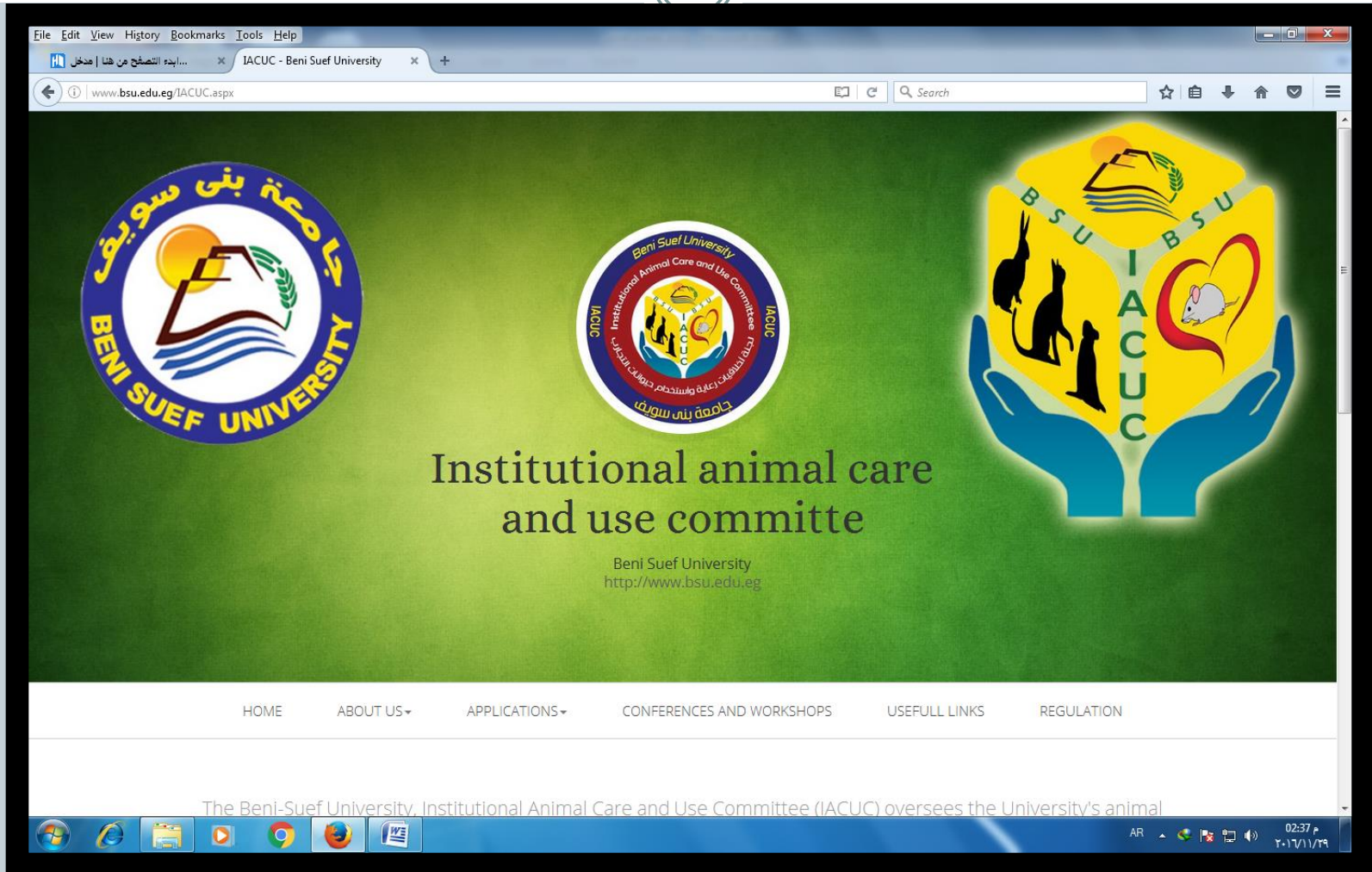➢ **Technical and training support**

How can you get application form?

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

www.bsu.edu.eg/IACUC.aspx

Contents of BSU-IACUC

Application forms

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

Scientific and scio-economic impacts

Animal suffering
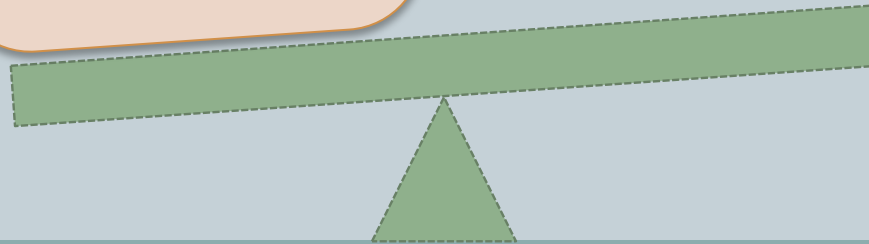
Replacement alternatives

- 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**