

# CCAC training module on: farm animals used in biomedical research

## Reference and Resource Handout

### Note:

This is a list of all the relevant references and resources cited within this module. Animal users should consult relevant experts and scientific literature for the most recent information on the species and techniques under consideration.

Care has been taken to ensure that any provided web links are up-to-date; however, the dynamic nature of the internet may mean that some links will become out-of-date. Therefore, keyword search suggestions are provided for situations in which links to additional resources may be broken. The keywords can be entered into any standard internet search engine.

### Slide 1 CCAC training module on: farm animals used in biomedical research

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Section 9.7 of the *CCAC guidelines on: the care and use of farm animals in research, teaching and testing* (2009). Visit the CCAC website at [www.ccac.ca](http://www.ccac.ca) to access and consult this guidelines document.

*CCAC training module on: the ethical use and care of farm animals in science* (2010). Visit the CCAC website at [www.ccac.ca](http://www.ccac.ca) to access and consult this training module.

### Slide 5 Farm Animals in Biomedical Research

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Russell W.M.S. and Burch R.L. (1959) *The Principles of Humane Experimental Technique*. Potters Bar, Herts UK: Universities Federation for Animal Welfare (UFAW).

### Slide 7 Challenges of Using Farm Animals in Biomedical Research

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*CCAC guidelines on: the care and use of farm animals in research, teaching and testing* (2009). Visit the CCAC website at [www.ccac.ca](http://www.ccac.ca) to access and consult this guidelines document.

*CCAC training module on: the ethical use and care of farm animals in science* (2010). Visit the CCAC website at [www.ccac.ca](http://www.ccac.ca) to access and consult this training module.

### Slide 8 Considerations for the Three Rs

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*CCAC policy statement on: ethics of animal investigation* (1989). Visit the CCAC website at [www.ccac.ca](http://www.ccac.ca) to access and consult this policy statement.

CCAC Three Rs microsite: [www.ccac.ca/en/alternatives](http://www.ccac.ca/en/alternatives).

CCAC training module on: *the Three Rs of humane animal experimentation* (2003). Visit the CCAC website at [www.ccac.ca](http://www.ccac.ca) to access and consult this training module.

Colditz I.G. (2006) The application of Russell and Burch's Three Rs in commercial livestock experimentation. *Animal Welfare* 15:1-5.

Russell W.M.S. and Burch R.L. (1959) *The Principles of Humane Experimental Technique*. Potters Bar, Herts UK: Universities Federation for Animal Welfare (UFAW).

## **Slide 9 Selecting Appropriate Farm Animal Models**

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Conn P.M. (ed.) (2008) *Sourcebook of Models for Biomedical Research*. 778 pp. Totowa NJ: Humana Press.

Martin P. and Bateson P. (1986) *Measuring Behaviour: An Introductory Guide*. 200 pp. New York NY: Cambridge University Press.

## **Slide 12 Appropriate Farm Animal Models: Other Considerations**

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CFIA's Import Procedures for Live Animals: <http://www.inspection.gc.ca/english/anima/heasan/pol/pole.shtml#anima> (Note: if link is broken, search: CFIA import procedure for animals).

## **Slide 13 Meeting Animal Needs in Confinement**

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CCAC Three Rs microsite: [www.ccac.ca/en/alternatives](http://www.ccac.ca/en/alternatives).

CCAC training module on: *environmental enrichment* (2003). Visit the CCAC website at [www.ccac.ca](http://www.ccac.ca) to access and consult this training module.

CCAC training module on: *the ethical use and care of farm animals in science* (2010). Visit the CCAC website at [www.ccac.ca](http://www.ccac.ca) to access and consult this training module.

## **Slide 14 Facilities & Disease Control Considerations**

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Public Health Agency of Canada: Material Safety Data Sheets (MSDS) for infectious substances, including many commonly found zoonotic agents: <http://www.phac-aspc.gc.ca/msds-ftss/> (Note: if link broken, search: public health MSDS infectious).

## **Slide 18 Medical Device Failure & Endpoints**

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CCAC guidelines on: *choosing an appropriate endpoint in experiments using animals for research, teaching and testing* (1998). Visit the CCAC website at [www.ccac.ca](http://www.ccac.ca) to access and consult this guidelines document.

CCAC training module on: *pain, distress and endpoints* (2010). Visit the CCAC website at [www.ccac.ca](http://www.ccac.ca) to access and consult this training module.