The animal welfare body and implementation of the 3Rs

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Norwegian Consensus Platform for replacement, reduction and refinement of animal experiments
www.norecopa.no
3R-implementation is an important tool in preparing for ethical evaluation – in everyone’s interest.

Bateson’s decision cube: all about avoiding the solid blocks…

Don’t hide 3R information in scientific papers on something else

SCID-Hu Mice Immunized with a Pneumococcal Vaccine Produce Specific Human Antibodies and Show Increased Resistance to Infection

Saphenous vein puncture for blood sampling of the mouse, rat, hamster, gerbil, guineapig, ferret and mink
The need for collaboration between regulators, scientists and technicians

- The scientists are the ones with the best insight into the literature in their research field = responsibility
- They are often not experts on LAS, 3R-resources and literature searching – use 3R information specialists
- We have no single Journal of Alternatives
- They rarely use 3R-terms when writing up their research
- Scientists may not have sufficient insight into the daily challenges of running an animal facility and the indirect costs of their research (e.g. technician time/motivation, health monitoring)
- Involve everyone from the first meeting, before rumours begin to circulate
- Get the technicians on your side
- The value of a good non-technical summary
- Invite key researchers to explain their projects
- Comment upon ”the Emperor’s new clothes”, ask the ”so what?” question and listen to the opponents
- Use statisticians to check the study design
Don’t forget the 3 S’s

- Good Science
- Good Sense
- Good Sensibility

Carol Newman

Use your heart as well as your head. Give the animals the benefit of the doubt.

Happy, healthy animals cared for by ditto technicians give the best (correct) results in an experiment.
Focus on Alternatives (FoA), UK

A consortium of UK animal welfare organisations


and

3R-implementation cannot be properly addressed until the objectives of the project have been clearly stated!

Example: the use of animals in teaching and training

- Teaching and practising:
  - laboratory skills
  - animal handling skills
  - preparation-specific animal skills
- Imparting good ethical thinking
- Data handling skills
- Experimental design skills
- Communication skills (oral, written)
- Groupwork
- Staff-student interaction
The NORINA database
http://oslovet.norecopa.no/NORINA
’We may need the animals, as it were, on the night; but the machines will do very well at rehearsals’ (Russell & Burch)
Quality assurance at all levels of the animal facility will increase 3R implementation

- **SOPs** describing good techniques, carried out by competent operators
- **Checklist (contract)** between researcher and the facility
- The AAALAC Program Description template as an overall performance checklist
  - Institutional policies on animal care and use
  - Animal environment, housing and management
  - Veterinary care
  - Physical plant
- A **Master Plan** as a daily checklist for the whole facility

+ the necessary literature/resources/finances/support to implement these
Three Rs Search Guide

If you plan to use animals for scientific purposes, you must complete an animal use protocol and submit it to an animal care committee for approval prior to commencement of the study. The animal use protocol outlines how the Three Rs will be implemented in the proposed animal-based procedures. To find the most up-to-date information on the Three Rs, investigators typically conduct a structured information search. To assist investigators with this search, the CCAC has produced the Three Rs Search Guide.

The Three Rs Search Guide provides detailed instructions on how to conduct a Three Rs information search in the Step-by-Step Three Rs Search Strategy.
3R centres

Welcome :: Home

Articles
Read original articles on the 3Rs

Blood sampling
New refinement resource on blood sampling

Events
Use the NC3Rs Events Calendar

Funded research
View research projects funded by the NC3Rs

What's new
- Scientists impress MPs with work to minimise the use of animals
- The Humane Society of the United States presents the 2007 Russell and Burch Award
- Use of primates in drug testing could be reduced
- NC3Rs Blood Sampling Microsite launched
- NC3Rs e-newsletter - Issue 9 Featuring new Annual Report, 3Rs Best Practice and article on refinement

Information Portal
The Information Portal is an area of the website containing annotated links to online databases, websites, journal articles, legislation and other publications. These resources provide information to help you apply the 3Rs and ensure the best possible standards in animal welfare. There are also links about the 3Rs

www.nc3rs.org.uk
Velkommen til Norecopia

Hvem er vi?
Om Norecopia
Historikk
Informasjonsmateriell
Ofte stilte spørsmål
Styre og sekretariat
Vedtekter
Styrets intranett

Hva gjør vi?
Aktivitetsplan
Årsmøter
Faglige uttalelser
Konsensusmøter
Regnskap
Styreforvaltning

Bli medlem!
Medlemmer
Medlemsfordelinger
Nyhetsbrev
Tegn medlemskap!

3Rs resources
About Norecopia
Activities
Consensus meetings
Guidelines A-Z
Position statements
Statistical design

Dyr i forskning
Å planlegge dyreforsøk
Fisk
Husdyr
Laboratoriedyr
Vilt

www.norecopa.no
International Consensus Meetings representing all stakeholders, with all presentations, guidelines and consensus document on the internet: wildlife, fish and agricultural animals.
Wednesday 26th September 2012

Mental health in animals: a shift towards positive welfare indicators
Randl Moe, Norwegian School of Veterinary Science
Abstract Presentation

Experiences with bringing animals into the lab: the pig as an example
Tore Framstad, Norwegian School of Veterinary Science
Abstract Presentation

Positive reinforcement training in farm animals in laboratory settings
Peter Glærum, Scantox, Denmark
Abstract Presentation

Practical application of the 3Rs - enrichment
Peter Clausing, AAALAC International
Abstract Presentation

Challenges in farm animal research: the European perspective
Roman Kolar, German Animal Welfare Foundation
Abstract Presentation

Thursday 27th September 2012

Is EU legislation on animals used for scientific purposes sufficiently geared towards research using farm animal species?
Marcelle Holloway, European Commission, DG Environment
Abstract Presentation

Update on CCAC guidelines on the use of farm animals in research, teaching and testing
Gilly Griffin, Canadian Council on Animal Care
Abstract Presentation

The FASS Guide for the Care and Use of Agricultural and Teaching
John McGown, Texas Tech University, USA
Abstract Presentation

The 4 E's of farm animal research: Economics, and Enforcement
David Main, University of Bristol, UK
Abstract Presentation

Recognition of pain and treatment in farm animals
Eddie Clutton, University of Edinburgh, UK
Abstract Presentation

Health monitoring and the issue of rehomisation
Axel Komein Hansen, University of Life Science, Norway
Abstract Presentation

Guidelines for housing, handling, bleeding
Penny Hawkins, RSPCA, UK
Abstract Presentation

Application of the 3Rs to challenge tests using rabbits
Coenraad Hendrikse, National Vaccine Institute, The Netherlands
Abstract Presentation

Friday 28th September 2012

Non-invasive methods of welfare assessment in sheep and cattle
Solveig Marie Stubsjøen, Norwegian School of Veterinary Science
Abstract Presentation

Farmyard research under the radar: are the 3Rs being used?
Torstein Steine, Norwegian University of Life Sciences
Abstract Presentation

Example guidelines for housing, handling, dosing and sampling in farm animals (a list produced by Dr. Penny Hawkins)
The participants at this meeting have produced a 12-page Consensus Statement, which summaries the common ground between all the stakeholder groups (regulators, academia, industry and animal welfare organisations). The document points out the strengths, challenges and opportunities for further implementation of the 3Rs within research involving agricultural animals. Norecopa will produce a list of specific tasks based upon this consensus statement.
Institutional 3R-websites, e.g.

- General information on laboratory animal science and the 3Rs
- Guidelines for the 3Rs when planning and reporting animal research
- NORINA database of audiovisual alternatives
- TextBase database of textbooks within LAS
- Overview of 3R-databases

Click here for more general information about the Section for Experimental Biomedicine.

Mission Statement (Strategidokument) for the Section
• **Email discussion groups**
  e.g. CompMed, VOLE, LAREF, consensus meeting forum, all Norway’s lab animal facility managers

• **Journals** and their theme numbers
  e.g. *Altex, Animal Welfare, ATLA, ILAR Journal, Laboratory Animals*

• **Review papers**
  e.g. *Guidelines for health and welfare monitoring of fish used in research*. Laboratory Animals, 2006, 40: 323-340

• **Proceedings**
  e.g. ECVAM workshops; World Congresses on Animal Use and Alternatives; Harmonisation of the Care and Use of Fish/Wild Animals/Agricultural Animals in Research
Information specialists: librarians with competence in searching and knowledge of LAS

The Animal Welfare Information Center (AWIC) is mandated by the Animal Welfare Act (AWA) to provide information for improved animal care and use in research, testing, teaching, and exhibition.

UCDavis Center for Animal Alternatives Information
Information Resources for Animal Care and Use Committees
Alternatives Search Resources
Access to an overview of guidelines, e.g.

AJ Smith & T Allen, 2005

*The use of Databases, Information Centres and Guidelines when planning research that may involve animals*

*Animal Welfare, 14 (4): 347-359*