



Does Norway need ecopa?

Do we need a National Consensus Platform in Norway?

What are we doing in Norway?



What's special about Norway?

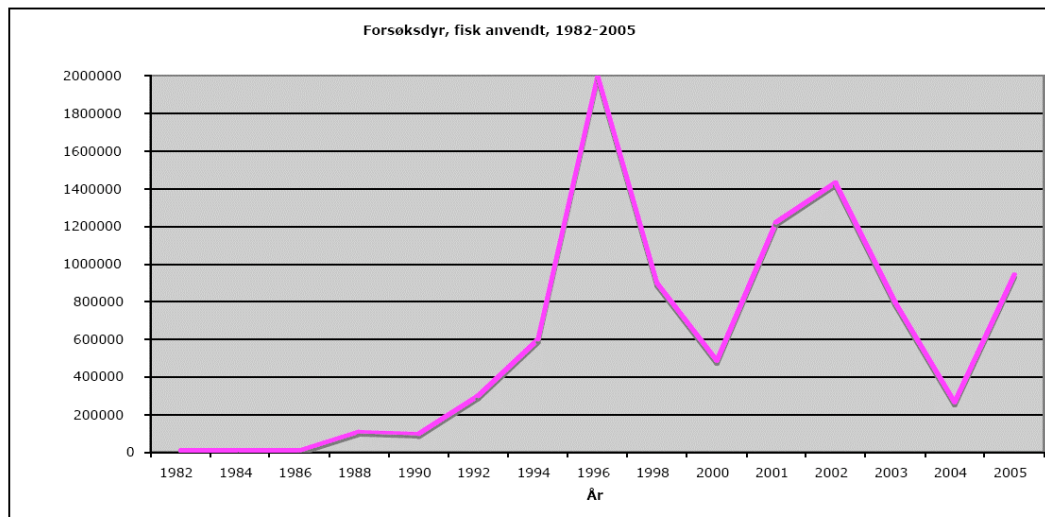
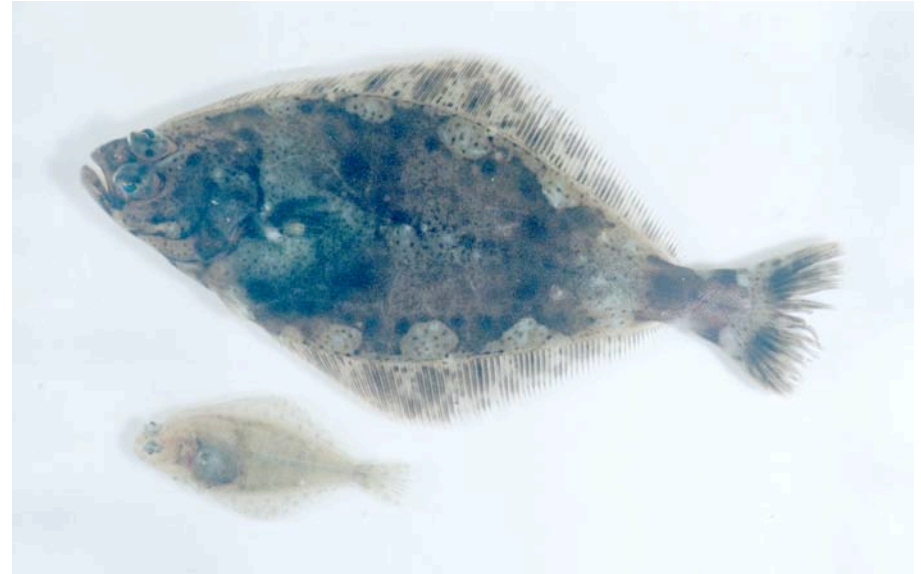
- over 60 facilities in a long country
- a lot of field research, uncontrolled conditions
- 90% of research animals are fish
- few national guidelines for animal research
- too few resources to the inspectorate

Testing, testing, testing ...

It is just as important to focus on **Reduction** and **Refinement**

Many challenges in fish research

- availability of standardised fish
- health and welfare
- pain perception
- refinement of procedures



- normal mortality
- low bambi factor
- definitions, statistics

Government Report no. 12 (2002-2003)

- "The Ministry will contribute to the formation of national platform, a centre of competence, for alternatives to the use of animals in research..."
- In 2003 the parliamentary committee that presented this Report asked the Government to: "follow up the formation of a National Platform with a research and development fund on the lines of the Swedish model."

Temporary platform, 2004-06

- Prepare the ground for a permanent platform
- Identify areas within the 3Rs needing attention in Norway
- Collect and produce guidelines for animal research
- "Harmonisation of the Care & Use of Fish in Research", May 2005
- Platform conference, October 2006
- Total budget of 200,000 euros + VAT plus substantial support from the Veterinary School in Oslo



Suggested model for a permanent platform:

- Registered as a Foundation with NOK 100.000,- in capital. Board of 8 persons, two from each stakeholder.
- A Council consisting of individual and corporate members from the four stakeholder sectors.
- A permanent secretariat for the platform: 1 Senior Advisor + ½ time secretary.
- An Interim board until the Council has chosen the permanent members.
- An R & D fund for the three Rs, largely financed by the State.



The two Ministries involved:

Ministry of Agriculture and Food
Ministry of Fisheries and Coastal Affairs

Both state that they will establish a permanent National Platform for Alternatives in 2007

But

- As yet we know nothing about the size of the budget



Norwegian School of Veterinary Science



The Norwegian Reference Centre for Laboratory Animal Science & Alternatives

Harmonisation of the Care and Use of Fish in Research

Report from an international consensus
meeting

Gardermoen, Norway 2005

Kathy Ryder, Ngairé Dennison, Renate Johansen
& Adrian J. Smith

A report from
The Norwegian Reference Centre for
Laboratory Animal Science & Alternatives,
Norwegian School of Veterinary Science,
Oslo, Norway
2005



Norwegian School of Veterinary Science



The Norwegian Reference Centre for Laboratory Animal Science & Alternatives

Platforms and Funds for Alternatives to Animal Experimentation

Live Kleveland

A report from
The Norwegian Reference Centre for
Laboratory Animal Science & Alternatives,
Norwegian School of Veterinary Science,
Oslo, Norway
2005

ISBN 82-7725-120-3

This is a revised version of the report, after circulation to
representatives of all ecopa platforms for approval.



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The Norwegian Reference Centre for Laboratory Animal Science & Alternatives

Analyse av forsøksfisk benyttet i Norge i 2003: Antall, arter og formål

*An analysis of the fish used
in research in Norway in 2003:
Numbers, species and use*

Gunvor Knudsen, Renate Johansen & Adrian J. Smith

A report from
The Norwegian Reference Centre for
Laboratory Animal Science & Alternatives,
Norwegian School of Veterinary Science,
Oslo, Norway
2005



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The Norwegian Reference Centre for Laboratory Animal Science & Alternatives

A Norwegian Platform for Alternatives to Animal Experimentation

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ISBN 82-7725-121-1



Norwegian School of Veterinary Science



The Norwegian Reference Centre for Laboratory Animal Science & Alternatives

Acts and Regulations concerning the Care and Use of Fish in Norwegian Research

1st Edition
October 2005

Renate Johansen, Gunvor Knudsen & Adrian J. Smith

A report from
The Norwegian Reference Centre for
Laboratory Animal Science & Alternatives,
Norwegian School of Veterinary Science,
Oslo, Norway



Norwegian School of Veterinary Science



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Sluttrapport fra prosjektet

**Nasjonal plattform for
alternativer til dyreforsøk**

Adrian J. Smith & Renate Johansen

Norges veterinærhøgskole
Forsøksdyravdelingen

2005

ISBN 82-7725-118-1

The use of databases, information
centres and guidelines when
planning research that may involve
animals

Animal Welfare, 2005, 14: 347-359

[http://www.ufaw.org.uk/journal/Animal%
20welfare.htm](http://www.ufaw.org.uk/journal/Animal%20welfare.htm)

Guidelines for health and welfare
monitoring of fish used in research

Laboratory Animals, 2006, 40: 323-340

<http://www.lal.org.uk/pdf/Files/GuidelinesFish.pdf>

<http://oslovet.veths.no>



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Microsurgery on the Laboratory Rat, Volume 1: General Techniques

Record number: 3910

Category: Handling and Surgery

Type: Video Film

Description: The longest videofilm (approximately 45 minutes) in this series demonstrates the basic principles and techniques. This videofilm should be studied closely before starting microsurgery on the laboratory rat: (Micro-)surgical instruments and their handling; suture materials and their handling; use of homeothermic blanket systems and bipolar coagulator; preparation of special aids, e.g. cannulae, swivels and adapters; making knots, running and interrupted sutures; handling and shaving the animal; giving injections in veins, using tail or penile vein; taking blood samples; administration of anaesthesia: Injectable (intraperitoneal, intramuscular, subcutaneous) and Inhalation anaesthetics using a anaesthetic machine; opening and closing the abdominal wall; subcutaneous tunneling of cannulae and their fixation on the crown of the head.

Comments & References: This series of videofilms belongs to the Manual of Microsurgery on the Laboratory Rat, Part 1: General Information and Experimental Techniques, describing experimental microsurgical techniques (http://www.elsevier.com/wps/find/bookdescription.cws_home/522026/description). The manual is incorporated within the series Techniques in Behavioral and Neural Sciences. ISBN: 0-444-81138-9 (hardback) and 0-444-81139-7 (paperback). Microsurgical Developments (MD) is a Dutch foundation, which closely collaborates with universities and industry. MD is supported by Solvay Duphar and Leica. See record numbers 3907, 3908, 3909 and 3911, 3912, 3913, 3914, 3915, 3916 for the other video films in this series. See also record number 4951 for The Microsurgical Developments PVC-RAT model and record number 5392 for REMOTE, an interactive patient monitoring system available on CD-ROM. See http://www.elsevier.com/wps/find/bookdescription.cws_home/522026/description

Price: US\$244.00; Complete set of 10 video films: US\$2179.00; Handling and shipping comes in addition

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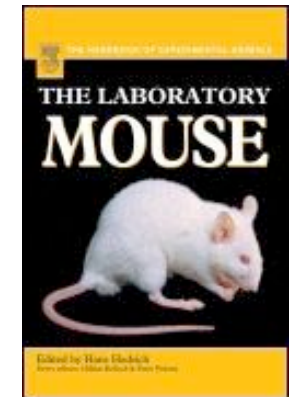
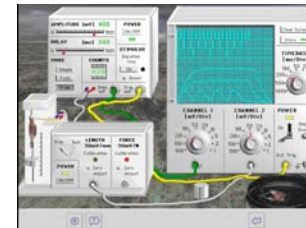
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- Guidelines for the three Rs when planning and reporting animal research
- Information on LAS to the public (including a guided tour in 3 languages)
- Information on the National Consensus Platform
- The NORINA database
- The TextBase database
- Overview of other databases within the three Rs
- Resources on the care & use of fish in research
- Educational material within LAS for researchers & technicians (compendia, films)

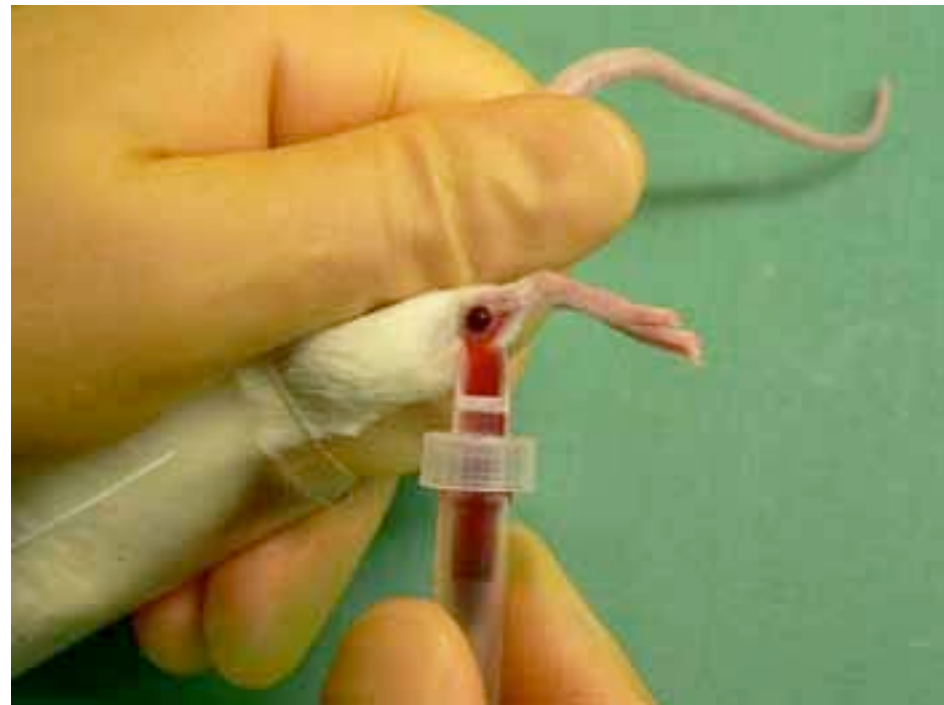




Refinement of techniques



<http://oslovet.veths.no>





Does Norway need ecopa?

Yes, a powerful lobbying tool and source of ideas on how to run a national programme for the 3Rs

Do we need a National Consensus Platform in Norway?

Yes, to identify areas for improvement and implement work on the 3Rs

What are we doing in Norway?

Well, we haven't gone into hibernation, despite observer status only!