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*Photo Album from
Norecopa's 10th Anniversary
Celebrations,
Adamstua, Oslo
10 October 2017*

NORECOPA
THE FIRST 10 YEARS



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Norecopa 10 år!

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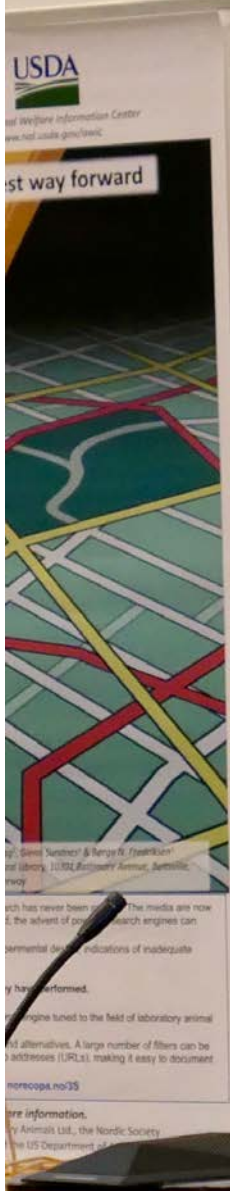


*Knut Carlberg,
Nordic Society Against Painful Animal Experiments*

*Sponsor of the NORINA database for many years
Full sponsorship of the work of updating the database
since 2012*



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PREPARE before you ARRIVE:
Guidelines for Planning Animal Research and Testing

Adrian J. Smith¹, R. Eddie Clutton², Elliot Lilley³, Kristine E. As. Hansen⁴ & Trond Brattelid⁵

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As part of ongoing efforts to **reduce waste** and **increase the reproducibility** of animal research and testing, we have produced a set of guidelines for planning animal experiments:

PREPARE (Planning Research and Experimental Procedures on Animals: Recommendations for ARRIVAL)
norecopa.no/PREPARE

The PREPARE guidelines for planning animal studies complement the ARRIVE guidelines and other similar guidelines for reporting.

A large number of factors, rarely reported in scientific papers, can dramatically influence the validity and outcomes of animal studies, as well as the health and safety of all those concerned. The PREPARE guidelines cover these and address all stages of quality assurance, from the animal facility or population to the individual procedures which make up the study.

A manuscript describing the PREPARE guidelines is available free of charge under Open Access in *Laboratory Animals*, 2017, DOI: 10.1177/0964677217714823 and at [norecopa.no/PREPARE/prepare-checklist](http://norecopa.no/PREPARE)

A [free page PREPARE checklist in 12 languages](http://norecopa.no/PREPARE/prepare-checklist) can be downloaded from norecopa.no/PREPARE/prepare-checklist

The PREPARE website also includes suggestions for a contact between scientists and animal facilities, to help discuss of ethical, costs and responsibilities.

PREPARE contains numerous links to guidelines and other resources, and uses the intelligent search engine of the **PREPARE** website (norecopa.no).

More information: adrian.smith@norecopa.no

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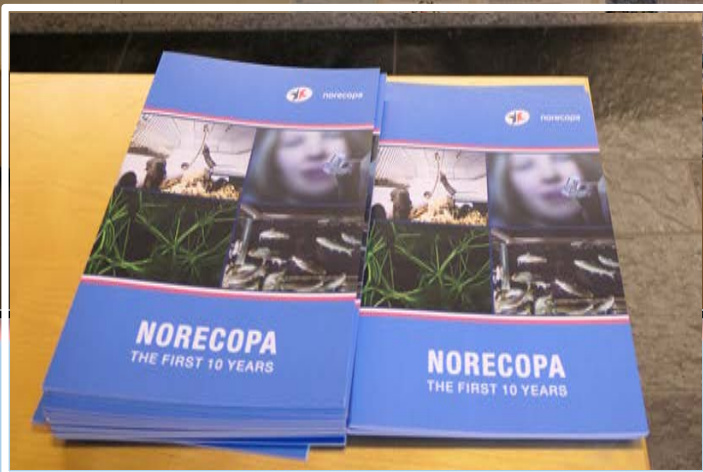
UFAW Open Access Norecopa guidelines Laboratory animal welfare



Norecopa's Secretary (2007-) Adrian Smith presents the work of Norecopa during the first 10 years, using a 36-page Anniversary booklet



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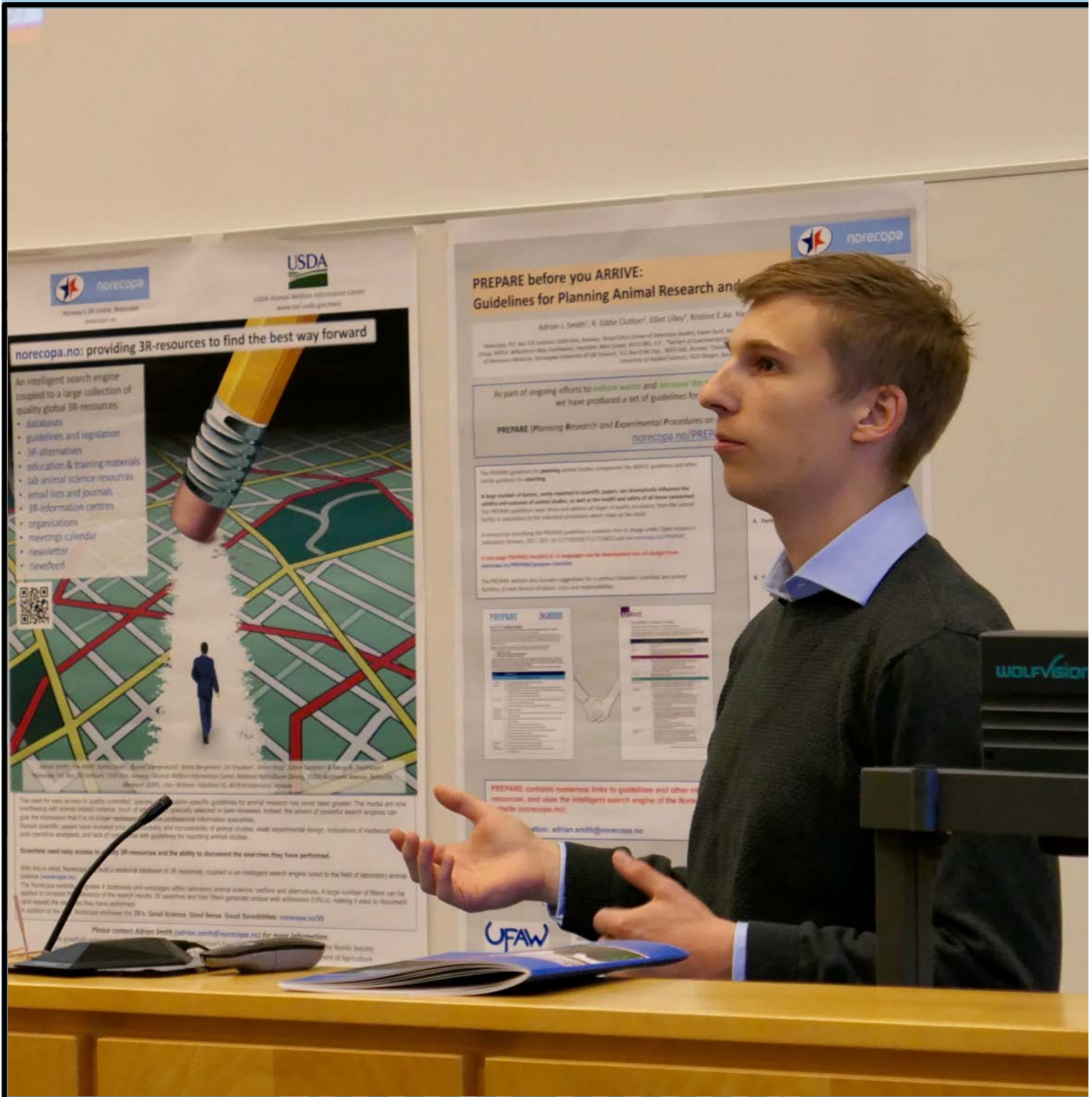


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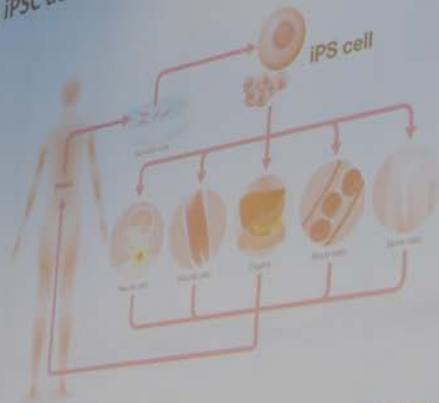


Leopold Koenig from TissUse, Berlin describes the possibilities for creating organs-on-a-chip



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Replacing current organ models
by iPSC derived models



TISSUSE
Emulating Human Biology

Leopold Koenig - NORECOPA - 10.10.2017

Leopold Koenig from TissUse, Berlin describes the possibilities for creating organs-on-a-chip



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PREPARE before you ARRIVE: Guidelines for Planning Animal Research and Testing

Adrian J. Smith¹, R. Eddie Clutton², Elliot Lilley³, Kristine E. As. Hansen⁴ & ...

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³Group, RSPCA, Woburnville Way, Southwood, Northam, Wiltshire, RG23 9NS, U.K.; ⁴Section of Experimental Biomedicine, ...
⁵Department of Veterinary Medicine, Norwegian University of Life Sciences, P.O. Box 8146 Sluppen, 2003 Oslo, Norway; ⁶Division for Research ...
⁷University of Applied Sciences, 2000 Bergen, Norway

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PREPARE (Planning Research and Experimental Procedures on Animals) norecoba.no/PREPARE

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A free **copy PREPARE checklist in 12 languages** can be downloaded free of charge from www.norecoba.no/PREPARE/prepare-checklist

The PREPARE website also includes suggestions for a contract between scientists and animal facilities, to help division of labour, costs and responsibilities.

PREPARE

Tom Bengtson from the Secretariat of the Danish 3R-Center explores what the Nordic 3R centres can offer and how they can collaborate



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ARRIVE:

Improving Animal Research and Testing

Norway's 3R centre, Norecopa
norecopa.no

R. Eitdie Clutton¹, Elliot Lilley², Kristine E.Aa. Hansen³ & Trond Bratteli⁴

¹York (UK) School of Veterinary Studies, Easter Bush, Midlothian, EH20 9BQ, UK, ²Newcastle Animal Department, Science & Health Society, RHEL-RES, Ltd., ³Division of Experimental Biomedicine, Department of Production Animal Clinical Sciences, Faculty of Health Sciences, H.O. Box 8146 Gap., 5020 Oslo, Norway, ⁴Division for Research Management and External Funding, Western Norway University of Applied Sciences, 5015 Bergen, Norway

reduce waste and increase the reproducibility of animal research and testing, we have produced a set of guidelines for planning animal experiments:

and Experimental Procedures on Animals: Recommendations for Excellence)

norecopa.no/PREPARE

implement the ARRIVE guidelines and other

papers, can dramatically influence the health and safety of all those concerned. The ARRIVE guidelines, from the animal care side up the study.

is free of charge under Open Access in [10.1186/1745-6216-10-10](https://doi.org/10.1186/1745-6216-10-10) and via norecopa.no/PREPARE

is available free of charge from:

contact between scientists and animal care.

The PREPARE guidelines cover 15 topics, grouped in three main sections:

A. Formulation of the study

1. Literature searches
2. Legal issues
3. Ethical issues, harm-benefit assessment and humane endpoints
4. Experimental design and statistical analysis

B. Dialogue between scientists and the animal facility

5. Objectives and timescale, funding and division of labour
6. Facility evaluation
7. Education and training
8. Health risks, waste disposal and decontamination

C. Quality control of the components in the study

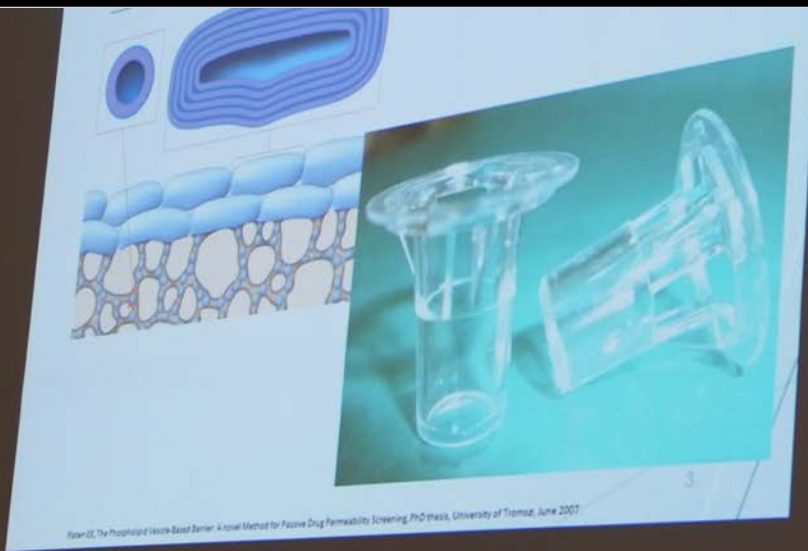
9. Test substances and procedures
10. Experimental animals
11. Quarantine and health
12. Housing and husbandry
13. Experimental procedures
14. Humane killing, rehousing and rehoming
15. Necropsy



Gøril Eide Flaten from the University of Tromsø describes the work which led to her winning Norecopa's 3R prize in 2013



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Flaten GE, The Phospholipid Vesicle-Based Barrier: A novel Method for Passive Drug Permeability Screening, PhD thesis, University of Tromsø, June 2007



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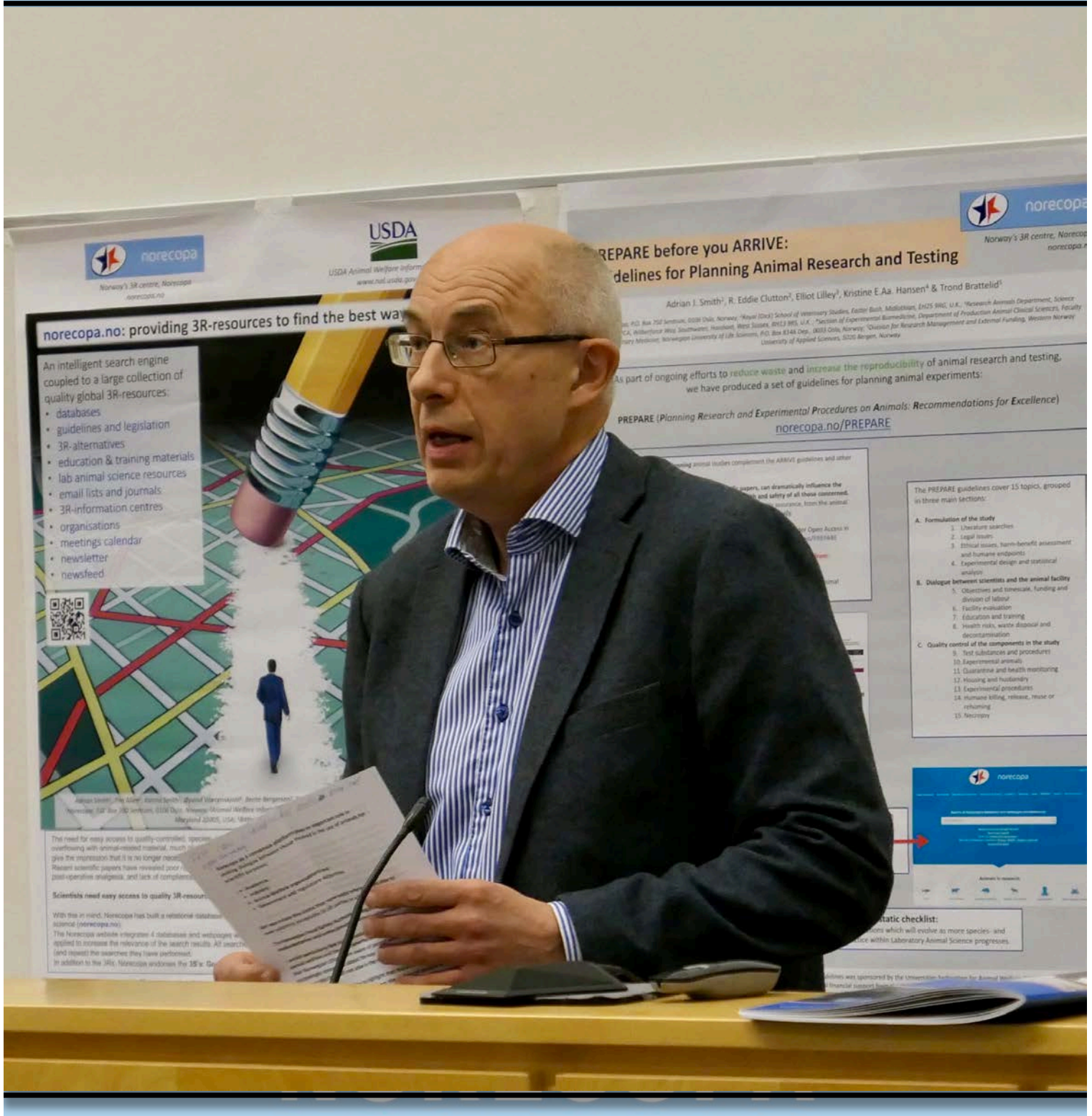
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Elliot Lilley from the Research Animals Department, RSPCA, discusses what difference the 3RS have made



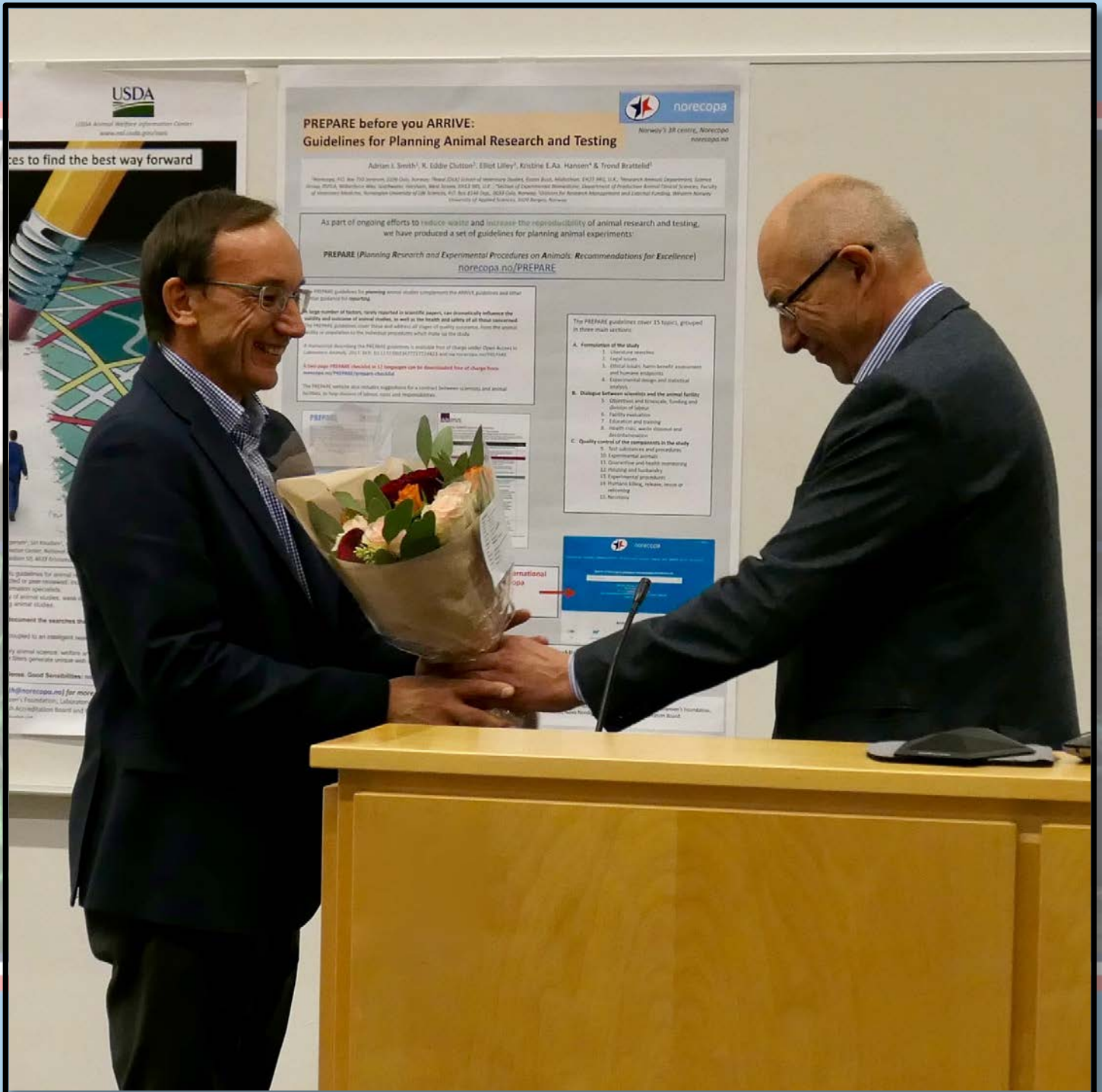
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Director Harald Gjein, Norwegian Food Safety Authority, closes the Anniversary Celebrations with remarks on the role and impact of Norecoba



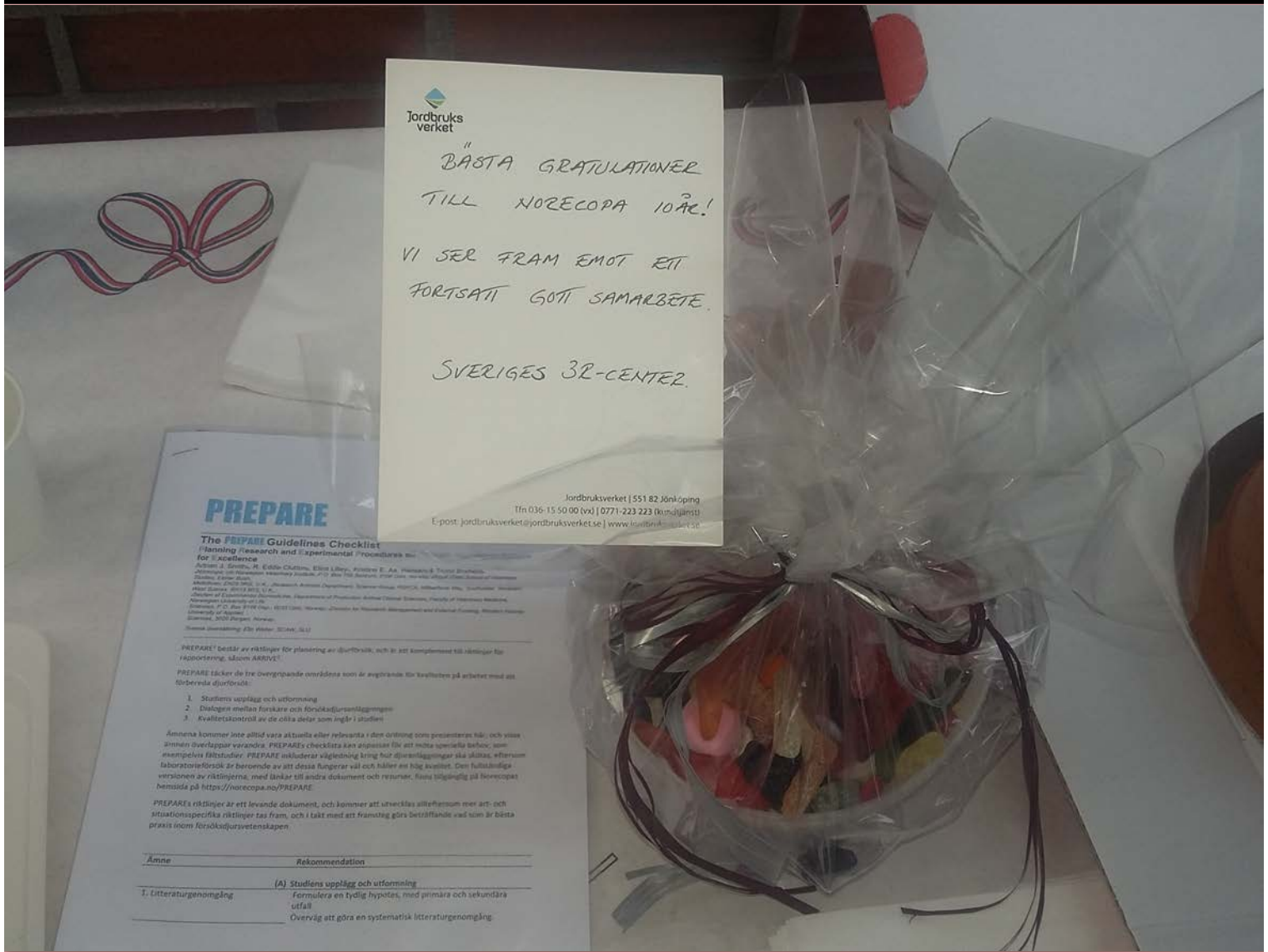
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Greetings from the Swedish Board of Agriculture who are opening the Swedish 3R Centre in November 2017

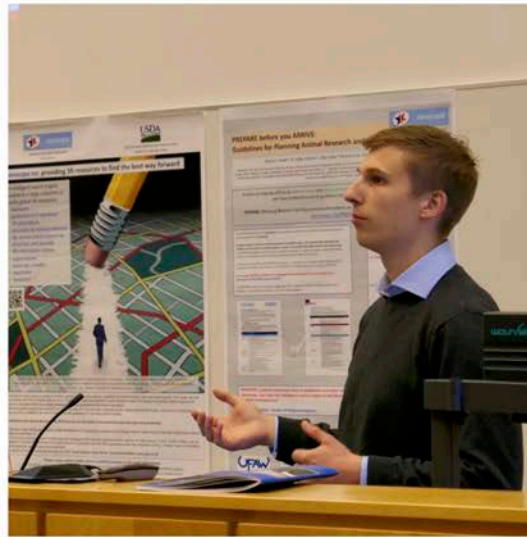
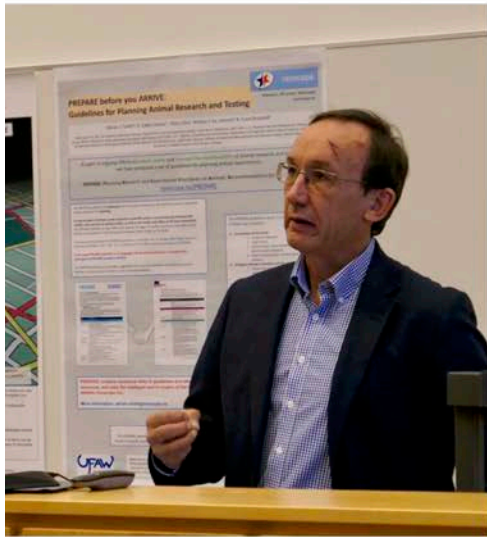
The presents included a Swedish translation of the PREPARE checklist for planning animal experiments



*Bente Bergersen
Chair of Norecopa's Board (2007-2017),
cuts the Anniversary Cake*



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Takk for i dag!

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