A new era of 3R resources and networking:
the European 3R Centres

norecopa.no/171121

Adrian Smith
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Norway's National Consensus Platform for the Three Rs: Replacement, Reduction and Refinement

and a source of global 3R resources

https://norecopa.no
norecopa.no: an updated overview of global 3R resources

approx. 8,500 webpages
300,000 hits annually
7-8 detailed newsletters per year

Design and reporting of animal experiments
This page supplements advice given in Section 4 of the PREPARE guidelines. PREPARE covers all aspects of design (including animal and facility related issues).

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we welcome more from you!
Webinar and Meetings calendar

November 2021

- Responsible Animal Research: Critical, Challenging and Creative Thinking, online course, 15-18 November 2021
- 2nd Annual Aquatic Life Conference, virtual event, 15-18 November 2021
- Accelerating the transition to animal-free innovation: Measures for an action plan to phase-out experiments on animals, roundtable discussion, 16 November 2021
- Denmark’s 3R-Center’s Annual 3R Symposium, Copenhagen, 16-17 November 2021
- Annual LASA Conference, online, 16-18 & 23-25 November 2021
- AnimalFACS, practical workshop on facial expressions, 17 November (& 6 December) 2021
- Assessing the genotoxic potential of gene therapy products in vitro, webinar, 17 November 2021
- XVI SECAL Congress, Lleida, 17-19 November 2021
- Basement Membrane Extracts and replacements for clinical application areas, webinar session 3 of 4; 18 November 2021
- Validation of animal-free methods, webinar (Raffaella Corvi & Emma Pedersen), 19 November 2021

+ webpages for past meetings and recorded meetings

norecopa.no/meetings/meetings-calendar
The background for the foundation of many 3R centres...
European Consensus-Platform for Alternatives
ecopa.eu

- Established in 2001
- Recognises National Consensus Platforms (NCPs) with 4 stakeholders equally represented:

Norecopa was established in 2007
RSPCA
Marshall Hall

1824 1835

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Marshall Hall: *Principles of Investigation in Physiology* (1835)

- An experiment should never be performed if the necessary information could be obtained by observations (REPLACE).
- No experiment should be performed without a clearly defined and obtainable, objective (REFINE).
- Scientists should be well-informed about the work of their predecessors and peers to avoid unnecessary repetition of an experiment (REPLACE, REDUCE).
- Justifiable experiments should be carried out with the least possible infliction of suffering (often through the use of lower, less sentient animals) (REPLACE, REFINE).
- Every experiment should be performed under circumstances that would provide the clearest possible results, thereby diminishing the need for repetition of experiments (REDUCE).
EU3Rnet  norecopia.no/global3r
Emphasis on Non-Animal Methods (NAMs) in addition to the 3Rs
Involvement of all members of the research community (scientists and animal care staff)
Bottom-up approach
Every 3Rs-centre, institute or society is welcome to join the network and sign the consensus statement
Approx. 30 "3R centres" today

Applied for a COST Action in 2021:
Dissemination
Education
Implementation
Scientific Quality / Translatability
Ethics
Are there only three 3R-centres in the Nordic countries?
A question of definition

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Norecopa's 3R Prizewinners – NOK 30,000

norecopa.no/about-norecopa/3r-prize
A demonstrable commitment, throughout the establishment, to improving:

- animal welfare
- scientific quality
- care of staff
- transparency for all stakeholders, including the public

*It goes beyond simply complying with the law!*

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There are lots of platforms...

Norecopa aims to be a fast train to global 3R resources
Norecopa: PREPARE for better Science
1. Advancing non-animal methods
2. Applying them to basic research
3. Improving their relevance to human biology

A more human-based approach to science, rather than refinement of animal models
This may be a challenge for scientists used to humanising animal models in basic research.
Better Animal Research through Open Science

Be open in several phases of your research

Why Open Science?
For research quality, research integrity, patients, animals, and society

PREPARE

Prepare your research with PREPARE guidelines

INFORM
Write a clear Non-Technical Summary

DESIGN
Write your work protocols based on perfect Experimental Design

PLAN
Make a Data Management Plan and set up version-control software

CONNECT
Engage in conversation with journalists and the public

EXCHANGE
Share surplus animals and tissues on ATEX.uu.nl

SHARE
Share your data and open up your code

ARRIVE
Report according to ARRIVE guidelines

PUBLISH
Publish, whatever the outcome

norecopa.no/PREPARE

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Webinar series

Nordic 3R webinars, 5-6 May 2021

organised by
ArcticLAS
Danish 3R-Center
Finnish 3R Centre
Finnish Centre for Alternative Methods (FiCAM)
Karolinska Institutet
Norecopa
Swedish 3Rs Center
Swedish Centre for Animal Welfare (SCAW)
Swedish University of Agricultural Sciences (SLU)
University of Copenhagen
University of Helsinki
University of Oulu

norecopa.no/meetings/nordic-webinars
nc3rs.org.uk/3rs-across-europe-webinar-series-recordings
Coming together is a beginning
Keeping together is progress
Working together is success

Edward Everett Hale

Russell & Burch
Sheringham, 1995
en.3rcenter.dk/3r/russell-burch