



## **Closing Remarks**

**Adrian Smith, Moderator**

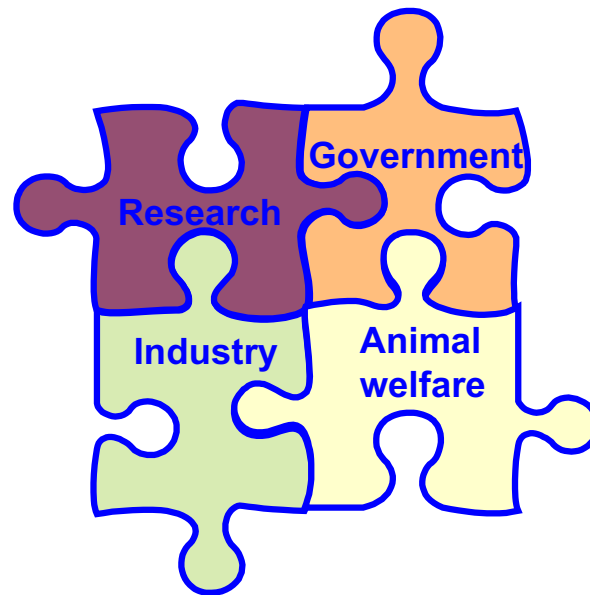
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A National Consensus Platform for the Three Rs

**norecopa.no**

*European Consensus-Platform for Alternatives*



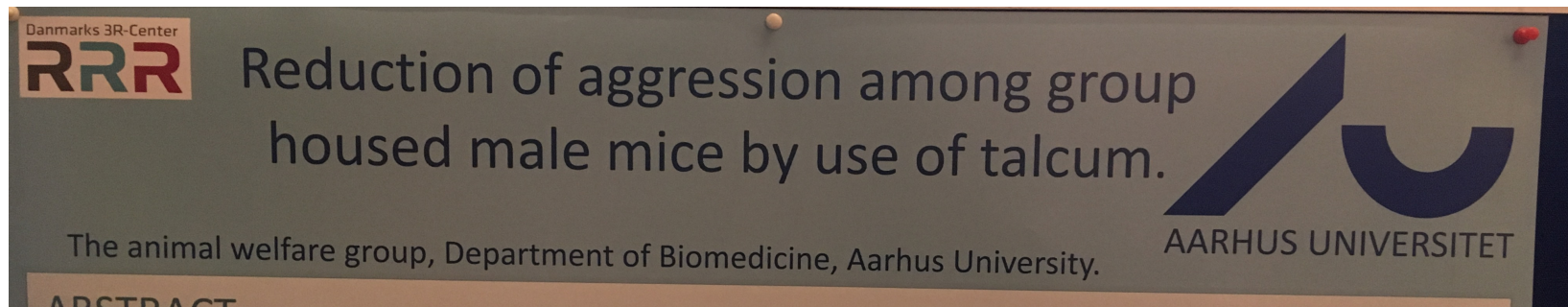
The quality of a Cinnamon Snail is dependent upon the quality of all the layers that go to make it. Some layers are more interesting than others, but all contribute to the quality – not just the icing on the outside!



Photo: Scanpix

The posters at this Symposium illustrate the importance of all the “layers” when planning and conducting animal research.

Here are some examples of the “inner layers” which are important for the housing and husbandry of lab animals.





*Publish 3R-improvements somewhere where they are visible!*

e.g. saphenous vein puncture as an alternative to retro-orbital puncture



[http://www.theodora.com/rodent\\_laboratory/blood\\_collection.html](http://www.theodora.com/rodent_laboratory/blood_collection.html)



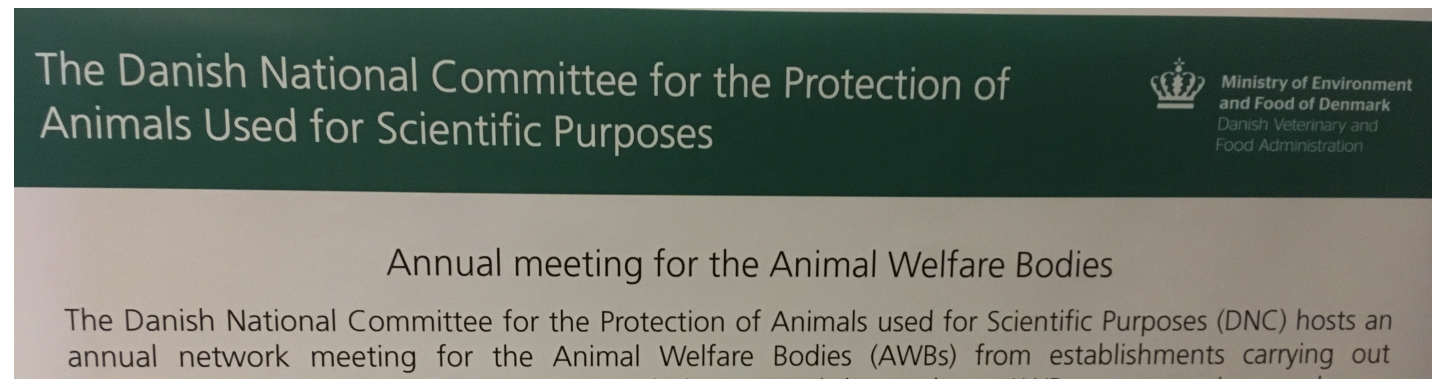
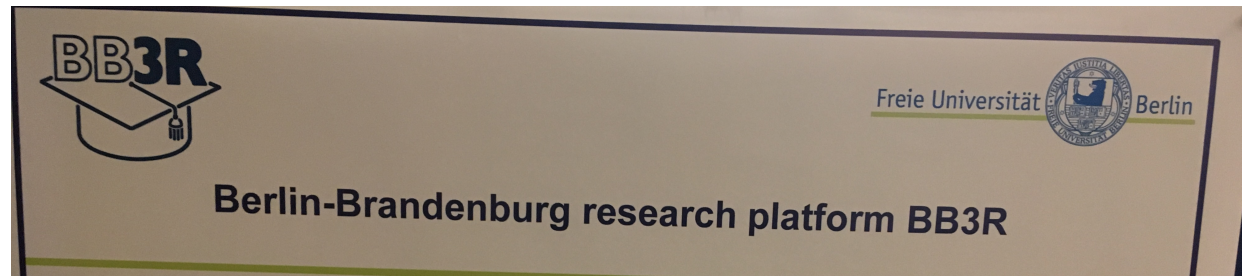
photo: NMBU

*Write a paper with a clear message in the title:*

***Saphenous vein puncture for blood sampling of the mouse, rat, hamster, gerbil, guinea-pig, ferret and mink***

The posters at this Symposium illustrate the importance of all the “layers” when planning and conducting animal research.

**Here are some examples of the “outer layers” which are important for dissemination of information on advances in the 3Rs to other institutions.**



The quality of a Cinnamon Snail can be described after it has been produced, but its quality cannot be improved by the description....to improve the quality, the ingredients and/or baking conditions must be changed.

So it is with animal experiments: we need good Reporting guidelines (e.g. ARRIVE), but we also need Planning guidelines (e.g. PREPARE):



Photo: Scanpix

# <https://norecopa.no/PREPARE>

## **PREPARE:**

Planning **R**esearch and **E**xperimental **P**rocedures on **A**nimals: **R**ecommendations for **E**xcellence

PREPARE covers 15 topics:

### **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

### **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

Items in pink are not  
highlighted in ARRIVE

### **Methods**

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



*In addition to a checklist, much more information* is available on:

[norecopa.no/PREPARE](https://norecopa.no/PREPARE)



The screenshot shows the header of the norecopa.no/PREPARE website. The header has a blue background. On the left is the Norecopa logo, which consists of a white oval containing a stylized red and blue star. To the right of the logo is the word "norecopa" in white lowercase letters. Further right, there are language links: "NORSK" and "ENGLISH", with "ENGLISH" being the active link. Below the language links is a search bar with the text "Search:" and a magnifying glass icon. Below the header is a navigation menu with the following items: "About Norecopa", "Alternatives", "Databases & Guidelines", "Education & training", "Legislation", "Meetings", "More resources", "News", "PREPARE" (which is underlined), and "Species". Below the navigation menu is a list of links for the PREPARE Checklist, separated by vertical bars: "PREPARE Checklist", "1-Literature searches", "2-Legal issues", "3-Ethical issues, Harm-Benefit Assessment and humane endpoints", "4-Experimental design and statistical analysis", "5-Objectives and timescale, funding and division of labour", "6-Facility evaluation", "7-Education and training", "8-Health risks, waste disposal and decontamination", "9-Test substances and procedures", "10-Experimental animals", "11-Quarantine and health monitoring", "12-Housing and husbandry", "13-Experimental procedures", "14-Humane killing, release, re-use or re-homing", "15-Necropsy", and "Comparison with ARRIVE". At the bottom of the page, there is a footer with the text "norecopa.no / PREPARE" on the left and social media icons for Facebook, Twitter, Email, and a plus sign on the right.

NORSK ENGLISH

Search: 

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wikipedia.org

Søren Kirkegaard (1813-1855)

*It is perfectly true, as philosophers say, that life must be understood backwards. **Reporting!***

*But they forget the other proposition, that it must be lived forwards. **PREPARE!***