

Danish 3R-Center



The Danish 3R-Center – successes so far

Christine Nellemann  
Symposium 2016

- Danish 3R-Center - status
- Website
- Supported 3R Projects
- Educational Material
- Symposium (3R-center) and the annual meeting for animal welfare bodies (National Committee)
- Annual Report
- 3R initiatives
- Future Plans

# Status

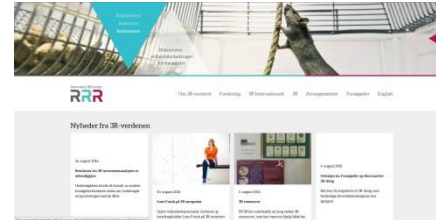
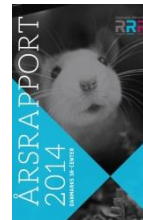
- Financing for 2014, 2015 and 2016
- Financing 2017 and forward?
- Opportunity for Danish 3R-Center status - what have we achieved?



Initial board meeting, nov. 2013. Board is also the National Committee



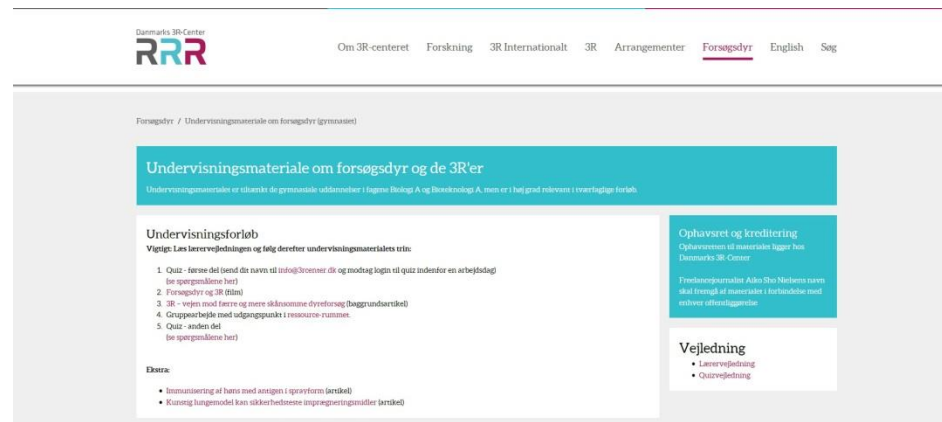
Symposium 2014



3rcenter.dk



Symposium 2015



Educational Material



- News (Danish and English)
- Newsletter (Danish and English)
- Disseminate information and results from supported 3R-projects – especially for professionals
- Educational Material for High school (in Danish, so far)
- Articles and statistics about laboratory animals for both professionals and people with an interest (in Danish)
  - We take our dissemination role serious (example, one of our board members, Peter Bollen, will visit eight schools in one week here in September to talk about Laboratory Animals and the 3Rs. A cooperation between the Danish 3R-Center and Astra - the national Centre for Learning in Science, Technology and Health in Denmark)

## **Successes:**

- Content is growing rapidly (especially articles and statistics about laboratory animals)
- Our site is being used
- Increasing number of visitors (17.000 page views since January 1)

# Supported 3R-projects – ten so far

## 2014

- Refinement of animal models of pain: Establishment of strategies to alleviate avoidable pain in rat models for pain and inflammation (**today 15.00**)
- Pathological and immunological consequences of basic experimental animal procedures in mice (**tomorrow 12.35**)
- Reducing the group size in studies of dermatitis by standardization of the gut microbiota (**today 11.45**)
- Establishment of an In vitro model for diabetic atherosclerosis (**poster**)

## 2015

- An in vitro method to predict acute lung toxicity due to pulmonary surfactant inhibition (**poster**)
- A Refined Approach to Producing Polyclonal Antibodies in Chickens – Completely Replacing All Invasive Elements by Combining Immunizations with Routine Aerosol-based Vaccinations (**in progress**)
- An alternative to animal experiments: Development of an in vitro human skin model for evaluation of topical antimicrobial compounds (**in progress**)

## 2016

- Development of computer models to predict chemicals interference with thyroid hormones (**poster**)
- Towards better brain cancer treatment with novel in vitro models and fewer animal experiments (**today 13.40**)
- Use of cell culture technology to minimize the needs for animal trials in development and production of fish vaccines (**poster**)

## Successes:

- Highly relevant 3R applications
- Promising results

- Main focus on A-level students in biology and biotechnology (high school)
  - Articles
  - Movie
  - Quiz
  - Web based
  - Free (3rcenter.dk)
  
- Two introduction arrangements (promotion) in Copenhagen and Jutland
  - Jutland 2015, participants from eight high schools
  - Copenhagen, November 2016

## **Successes:**

- Some High school classes have already used the material
- Page has the third highest number of page views on 3rcenter.dk

- Annual
- Two days
- 170 participants this year (150 last year)
- In English
- International presenters
- 3R award
  
- Annual meeting with all animal welfare bodies

## **Successes:**

- 2014, symposium participant survey result 4,3 (1= not satisfied, 5= very satisfied)
- 2015, symposium participant survey result 4,3
- The Danish 3R-Center has become fairly known amongst researcher involved in animal experiments in Denmark
- Highly qualified 3R nominees
- The two meetings (symposium and animal welfare bodies meeting) covers most of the people with a professional interest in Laboratory Animals and alternatives)

- 2014, Focus on creation of the center (in Danish)
- 2015, Focus on 3R projects, website, 3R arrangements and Internationally cooperation (in Danish and English)
- 2016, Focus will be on **results** of 3R projects, teachers/students who have used our educational material and 3R arrangements (in Danish and English)

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- The Danish 3R-Center has become fairly known amongst researcher involved in animal experiments in Denmark



# Initiatives

- Supported Symposium and Workshop in Systematic Reviews and Meta-analyses (Aarhus, November 2015)
- Supported EEMGS Annual Meeting (Copenhagen, August 2016)
- Distribution of 3R material developed by NC3Rs (improve your research)  
([en.3rcenter.dk/research/improve-your-research/](http://en.3rcenter.dk/research/improve-your-research/))

- Symposium 2017
- Research Funding 2017
- Educational material for primary school
- Promotion of Educational Material (High school and Primary school)
- More focus on news and on our website
- Severe severity

Thank you for your attention

- Tilmeld dig vores nyhedsbrev:

**3rcenter.dk**

- Sign up for our newsletter:

**en.3rcenter.dk**