

Christine Nellemann, November 2015

Topics



Background

- Organisation
- Finances
- Vision and mission

Tasks

- Initiate and support research
- Collect and disseminate information
- International collaboration

Projects launched 2015

November and December 2015

Background



Political decision to establish 3R-Center in Denmark, June 2013

Collaboration between

- Government (Ministry of Environment and Food)
- Pharmaceutical industry (LEO Pharma, Lundbeck, Novo Nordisk)
- Animal welfare organizations (Dyrenes Beskyttelse, Forsøgsdyrenes Værn, Alternativfondet)

Board elected

Initial board meeting, November 2013

Organization



Ministry of Environment and Food

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Administration of Veterinary and Food

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Department of Animal Welfare and Veterinary Medicine

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The Danish 3R-Center

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The Animal Experiments

Inspectorate

Board

Secretariat

Organization



Board:

- Christine Nellemann
 - Adrian Smith
- Axel Kornerup Hansen
 - Erwin Roggen
 - Jan Lund Ottesen
 - Lisbeth E. Knudsen
 - Peter Bollen
 - Peter Bie (observer)

The board is also the National Committee

Secretariat:

- Tom Bengtsen
- Louise Bjoern Broenden
- Rasmus Normann Nielsen
 - Birgitte Vindahl Olsen



Finances



Ministry of Environment and Food: 1.500.000 DKK.

Stakeholders: 1.200.000 DKK.

Total: 2.700.000 DKK.

On behalf of the Minister of Environment and Food the Danish 3R-Center can annually hand out 1.500.000 DKK. as research funds.

Vision



It is the goal of the Danish 3R-Centre to generate a leading environment within the implementation and dissemination of the 3Rs

Mission



- Initiate activities that may lead to the immediate implementation of the 3Rs
- Provide a forum for collaboration, discussion, exchange and dissemination of information on the 3Rs
- Initiate research projects and recommend funds allocation of resources within the area

Tasks



- Initiate and support research in laboratory animal studies and the development of alternatives
- Collect and disseminate knowledge on alternatives to animal testing
- Cooperate with similar centers abroad



3R-projects supported in 2014

- Refinement of animal models of pain: Establishment of strategies to alleviate avoidable pain in rat models for pain and inflammation (Klas Abelson, University of Copenhagen)
- Pathological and immunological consequences of basic experimental animal procedures in mice (Dorte Bratbo Sørensen, University of Copenhagen)
- Reducing the group size in studies of dermatitis by standardization of the gut microbiota (Axel Kornerup Hansen, University of Copenhagen)
- Establishment of an In vitro model for diabetic atherosclerosis (Mette Bjerre, Aarhus University)



3R-projects supported in 2015

- An in vitro method to predict acute lung toxicity due to pulmonary surfactant inhibition (Søren Thor Larsen, National Research Centre for the Working Environment)
- A Refined Approach to Producing Polyclonal Antibodies in Chickens – Completely Replacing All Invasive Elements by Combining Immunizations with Routine Aerosol-based Vaccinations Otto Kalliokoski, University of Copenhagen)
- An alternative to animal experiments: Development of an in vitro human skin model for evaluation of topical antimicrobial compounds (Mette Elena Skindersø, SSI)



Project status 2015

- Otto Kalliokoski, 13.30 today
- Mette Elena Skindersø, 13.50 today
- Søren Thor Larsen, 14.10 today



Projects 2016

- 14 applications received
- December 2015, decision by The Board



3rcenter.dk – News in Danish





Om 3R-centeret Forskning 3R Internationalt 3R Arrangementer Forsøgsdyr English

Nyheder fra 3R-verdenen

26. oktober 2015

Eksperimentel design og statistik

Norecopa er medarrangør af et seminar om eksperimentel design og statistik, som afholdes i Norge 1.-3. februar 2016. Ansøgningsfrist 15.... 13. oktober 2015

NordCAW afholder seminar/workshop

NordCAW afholder seminar den 24. november 2015 om at kommunikere dyrevelfærdsmæssige emner. 14. september 2015

3R Forskningsmidler

Danmarks 3R-Center har åbnet for ansøgningsrunden til forskningsmidler.



8. september 2015

3R-symposium

Programmet er nu offentliggjort til 3R-

http://3rcenter.dk/3r/reduction/



en3rcenter.dk – News in English





About us Research funding 3R organizations 3R Symposium Dansk

3R-news from around the world

26. October 2015

Training school in experimental design and statistics

The NeXT FRAAME Training School will take place in Norway from 1-3 February 2016. Closing date for applications is November 15.

13. October 2015

Seminar held by NordCAW

A seminar/workshop will be held November 24, 2015 at the Swedish University of Agricultural Sciences in Uppsala, Sweden, by the Nordic network... 14. September 2015

Research funding

The Danish 3R-Center has opened the application round for 3R research funding.



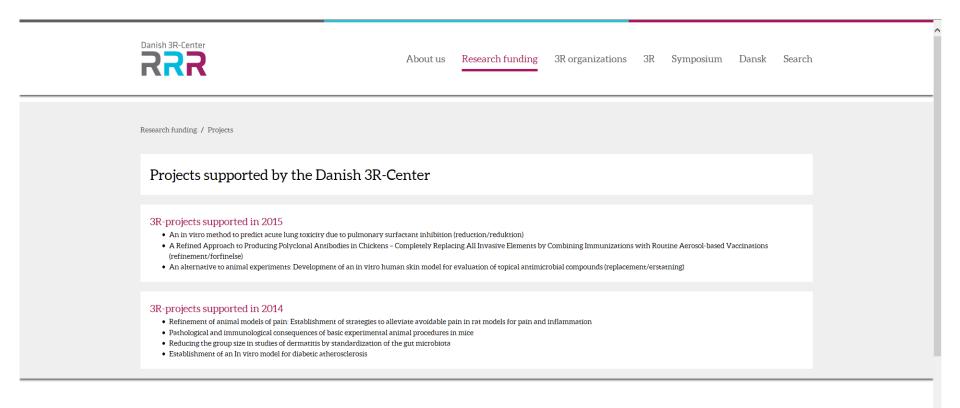
8. September 2015

3R Symposium

The Danish 3R-Center has just released the



Disseminate information and results from supported 3R-projects – especially for professionals





Publish newsletter (in Danish) – also for professionals



15. juni 2015

Nyhedsbrev fra Danmarks 3R-Center

3R-centeret afholder symposium 10. og 11. november 2015

I lighed med sidste år afholder Danmarks 3R-Center et symposium. I år strækker symposiet sig over to dage og vil foregå på engelsk. Danmarks 3R-Center har inviteret en række nationale og internationale personligheder med ekspertise på 3R-området til at fortælle om deres arbejdsområde.

Dato: 10.-11. november

Sted: Charlottehaven på Østerbro i København

Gratis deltagelse

Program og tilmelding (Deadline 21. oktober 2015)

Forskningsmidler

Danmarks 3R-Center har åbnet en ny ansøgningsrunde til forskningsmidler. Deadline er 21. oktober 2015. Du kan finde relevant information og ansøgningsskema her.



Disseminate facts about laboratory animals (from The Animal Experiments Inspectorate) – especially for primary school/high school students



Om 3R-centeret Forskning

3R Internationalt 3R

Arrangementer

Forsøgsdyr

English

Forsøgsdyr / Hvilke dyr bruges som forsøgsdyr?

Hvilke dyr bruges som forsøgsdyr?

Langt størstedelen af de forsøgsdyr, som benyttes i Danmark, er mus, rotter, grise og fisk (ca. 95 % i 2013). Nedenfor kan du se en komplet liste over, hvilke dyr, som anvendes som forsøgsdyr i Danmark. Du kan også se, med hvilke formål dyrene anvendes (kilde: Dyreforsøgstilsynets Årsberetning 2013).

Forsøgsdyr og formål (2013)

1013øg3dy1 0g1011tta1 (2010)									
Dyreart	Grundlæggende biologiske undersøgesler	Forskning i udvikling af produkter og artikler til medicinske, odontologiske og veterinærmedicinske formål	Fremstilling af og kvalitetskontrol med produkter og artikler til medicinske og odontologiske formål	Fremstilling af og kvalitetskontrol med produkter og artikler til veterinærmedicinske formål	Toksikologiske og andre sikerhedsvurderinger	Sygdomsdiagnosticering	Uddannelse og undervisning	Andet	Total
Mus (Mus musculus)	52.540	73.094	13.608	0	4.523	1.316	2.479	2.148	149.708
Rotter (Rattus Norvegkus)	14.387	22.444	4.394	0	3.246	210	1.829	240	46.750
Marsvin (Cavia porcellus)	117	413	2.969	12	0	0	20	0	3.531
Hamstere (Mesocricetus)	0	8	0	0	0	0	0	0	8



Including film production



Om 3R-centeret

Forskning

3R Internationalt 3R

Arrangementer

English

Forsøgsdyr / Undervisningsmateriale om forsøgsdyr / Introducerende film om 3R

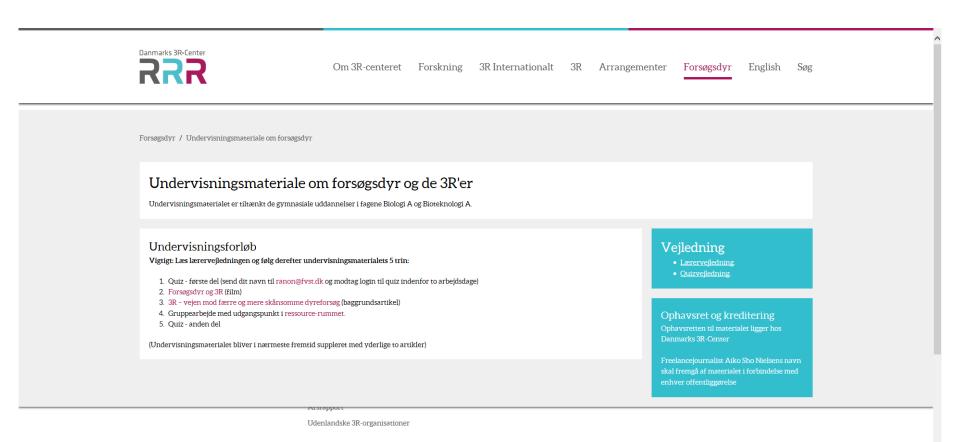
Forsøgsdyr og 3R (introducerende film)

Udarbejdet af Aiko Sho Nielsen (freelancejournalist og gymnasielærer i biologi) i samarbejde med Danmarks 3R-Center (copyright)





Our newly produced educational material can be transformed from highschool material to primary school or even university





Publish an Annual Report containing information about 3R trends and research both nationally and internationally





Participation in meetings with oral presentation and poster





Annually symposium

- In English
- Foreign presenters
- 3R award









International collaboration



- Participate in international meetings, councils, seminars and networks concerning 3R and Best Practice
- Organize meetings with other 3R Centers worldwide
- Maintain good international relations
- Connect with national parties involved in international 3R collaborations
 - PARERE national contact person
 - The Danish Health and Medicines Authority contact involved in the 3R work in EMA

International collaboration



Collaborators

Nationally

- Animal welfare organisations
- Animal welfare bodies
- Pharmaceutical industry
- Universities
- Danish Ministry of the Environment /PARERE
- The Danish Health and Medicines Authority / EMA

International collaboration



Collaborators

Internationally

- 3R Research Foundation (Switzerland)
- NC3R (U.K.)
- ZEBET (Germany)
- EURL-ECVAM (EU)
- FICAM (Finland)
- SCAW, SWETOX (Sweden)
- CCAC (Canada)
- RIVM (The Nederlands)



Educational material

- Focus on A-level students in biology, biotechnology and microbiology
- Articles
- Movie
- Quiz

- Web based
- Free
- Two introduction arrangement in Copenhagen and Jutland



The 3Rs: on animal scientists perceptions, awareness and practices

- Scientific study
- Questionnaire
- Institut for Fødevare og Ressource Økonomi, KU
- Small steering group
- Questionnaire summer 2015 to license holders and users of nonanimal models



Statistical analyzes of 10 years of data from the Danish Experiments Inspectorate

- Find trends
- Identify reduction potential
- Evaluate development of severity
- Performed in August September 2015
- Designated data analysts



- Educational material, Aiko Sho Nielsen, 15.00 today
- The 3Rs: on animal scientists perceptions, awareness and practices, Jesper Lassen, 15.30 today
- Statistical analyzes of 10 years of data from the Danish Experiments Inspectorate, Louise Broenden, 16.00 today



Thank you for your attention