

Search tools and databases	Alternative methods	Information on drugs and diseases	Portals and web-sites (details on separate sheet)	Teaching	Journals (details on separate sheet)	Other resources (details on separate sheet)	"Three Rs"	Ethics
EU 3Rs databases-The protection and welfare of animals is an area covered by a wide range of EU legislation. This includes the protection of wildlife, zoo animals, farm animals, animals in transport and animals used for scientific purposes. Animal studies, whether for the development or production of new medicines, for physiological studies, for studying environmental effects or for the testing of chemicals or new food additives, has to be carried out in compliance with EU legislation.	Database on alternatives on the internet-Zebet- One of the tasks of ZEBET is to provide scientists from industry, universities and public authorities with information on alternative methods in a database developed for that specific purpose. Since February 2000 the ZEBET database on alternative methods to animal experiments has been accessible without license fees on the Internet in German and English through the German Institute for Medical Documentation and Information (DIMDI).	The Interspecies Database-The Interspecies Database helps researchers to make an optimal choice of species and strain of the animal model, which is essential for efficient extrapolation of animal data to humans or other animals. The database has initially been developed by the National Institute for Public Health and the Environment (RIVM) and the Dutch Ministry of Health, Welfare and Sports. It is offered by the 3Rs-Centre ULS in collaboration with the RIVM.	Animal Welfare Information Centre (AWIC)-The Animal Welfare Information Center (AWIC) is mandated by the Animal Welfare Act (AWA) to provide information for improved animal care and use in research, testing, and teaching.	Alternatives to laboratory Animals-ATLA is published by FRAME FRAME, and has been a key scientific journal in the field of laboratory animal alternatives for more than 30 years. Circulated worldwide, ATLA is distributed to individuals, organisations and institutions. It covers the latest research relating to alternatives to the use of laboratory animals	AGRICOLA and Veterinary Science Journals-he United States Agricultural Information Network is an organization for information professionals that provides a forum for discussion of agricultural issues, takes a leadership role in the formation of a national information policy as related to agriculture, makes recommendations to the National Agricultural Library on agricultural information matters, and promotes cooperation and communication among its members	CAMARADES-The CAMARADES collaboration provides a supporting framework for groups involved in the systematic review and meta-analysis of data from experimental animal studies. Our interests range from identifying potential sources of bias in animal work; developing recommendations for improvements in the design and reporting of animal studies; developing the meta-analysis methodology the better to apply it to animal studies; through to the selection of candidate stroke drugs for clinical trial. CAMARADES aims to provide a central focus for data sharing; to act as a resource for those wishing to carry out such reviews; to provide a web based stratified meta-analysis bioinformatics engine (under development!); and to act as a repository for completed reviews	American Association for Laboratory Animal Science (AALAS)-AALAS is an association of professionals that advances responsible laboratory animal care and use to benefit people and animals.	Home Office: Legislation. The use of animals in scientific research remains a vital tool in improving our understanding of how biological systems work both in health and disease, and in the development of new medicines, treatments and technologies. Underpinning this research is a strong commitment to maintaining a rigorous regulatory system which ensures that animal research is carried out only where no practicable alternative exists and under controls which keep suffering to a minimum. This is achieved through robustly applying the principles of the 3Rs to all research proposals involving the use of animals.
Europe PubMed Central (Europe PMC)-We have over 5 million more abstracts than PubMed. Europe PMC also contains Patents, NHS (National Health Service) guidelines, and Agricola records	The EURL ECVAM DataBase service on Alternative Methods (DB-ALM)	Toxicology Data Network- is a group of databases covering chemicals and drugs, diseases and the environment, environmental health, occupational safety and health, poisoning, risk assessment and regulations, and toxicology	Alternatives to Animal Testing-the Alternatives to Animal Testing Web Site, was created to serve as a gateway to alternatives news, information, and resources on the Internet and beyond. Altweb now is the U.S. home of the journal ALTEX: Alternatives to Animal Experimentation,	Guidelines for the care and use of animals in research and teaching	Alternatives to laboratory Animals-ATLA-ATLA is intended to cover all aspects of the development, validation, introduction and use of alternatives to laboratory animals in biomedical research and testing.	Consensus meetings on the care and use of fish, wildlife and agricultural animals in research	Danish 3R-Center-•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.	Understanding Animal Research:aim to provide all you want to know about animal research, whether you are a concerned member of the public or have a special interest. If you are a teacher, student, scientist, policy maker or a journalist, select one of the tabs above to find the content of particular interest to you
PubMed-PubMed comprises more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites	EURL ECVAM QSAR Model Inventory of the Commission's Joint Research Centre (JRC)	EMBASE from Elsevier Life Science Solutions-Embase is a crucial resource for discovering biomedical evidence within published, peer-reviewed literature, in-press publications and conference abstracts.	Bibliography on Alternatives to Animal Testing (Altbib), ALTBIB provides access to animal alternatives news sources, such as the Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM). The portal has an extensive collection of links to key organizations providing information on alternatives to animal testing. ALTBIB also offers access to ICCVAM's "International Acceptance of Alternative Methods, 1998-2012" and "U.S. and International Milestones in Alternative Test Method Development and Evaluations."	Norecopa films and videos animal procedures and handling	Alternatives-ALTEX-ALTEX publishes original articles, short communications, and reviews, as well as news and comments, meeting reports, and book reviews. Animal experiments are defined by the editors as all experimental procedures involving the use of animals in testing, research, and education, or to obtain tissues, organs, and other animal derived products that may cause pain or distress to animals.	Films showing handling and basic techniques in common laboratory animal species	Dutch 3Rs-Centre Utrecht Life Sciences	National Centre for the Replacement, Refinement and Reduction of Animals in Research:
TextBase-TextBase is a collection of information on textbooks within the field of laboratory animal science and related areas. The database is built into this website and the search engine at the top of all the pages performs searches in it automatically.	NORINA (A Norwegian Inventory of Audiovisuals)	CAAT-Europe (Centre of Alternatives to Animal Testing)	CAAT-Europe (Centre of Alternatives to Animal Testing)	Classic Audiovisual database-Norina	Animal Welfare is an international scientific and technical journal. It publishes the results of peer-reviewed scientific research, technical studies and reviews relating to the welfare of kept animals (eg on farms, in laboratories, zoos and as companions) and of those in the wild whose welfare is compromised by human activities.	Global list of guidelines related to laboratory animal science.	European consensus-platform for alternatives (ECOPA)	The Medical Research Council: The MRC ethics series document 'Good research practice: principles and guidelines' sets out the MRC's expectations for MRC research units and institutes, MRC university units, MRC centres and MRC grant holders in the form of
Web of Science-The Web of Science® (formerly Web of Knowledge) is today's premier research platform, helping you quickly find, analyze, and share information in the sciences, social sciences, arts, and humanities. You get integrated access to high quality literature through a unified platform that links a wide variety of content with one seamless search.	European consensus-platform for alternatives (ECOPA)	The EURL ECVAM DataBase service on Alternative Methods (DB-ALM)	CCAC- Canadian Council on Animal Care	Frame Schools Project	Applied Animal Behaviour Science-Official Journal of the International Society for Applied Ethology (ISAE) An international journal reporting on the application of ethology to animals managed by humans.	Guidelines for the care and use of animals in research and teaching	The Federation of Laboratory Animal Science Associations (FELASA)	European Science Foundation Policy on animal use 2001: Over the past twenty years or so, there has been a 'revolution' in the life sciences, and our knowledge and capabilities have dramatically increased. At the same time, these advances have raised very important ethical concerns in both the scientific community and with the public at large.

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Go3R- is a sematic search engine to avoid animal experiments.	Fund for the Replacement of Animals in Medical Experiments (FRAME)	US Food and Drug Administration	Fund for the Replacement of Animals in Medical Experiments (FRAME)	Frame training schools	Laboratory Animals-An international journal reporting on the application of ethology to animals managed by humans.	Guidelines on the care and use of fish in research	Institute of Animal Technology (IAT)	Academy of Medical Science: The Academy is working to address all aspects of animals in research, from engaging in debate about how to regulate the use of animals in research, to efforts to improve the openness of organisations that are involved in animal research
3R Guide-Norecopa, in collaboration with the Animal Welfare Information Center Department of Agriculture in Beltsville, USA has produced a database which provides an overview of guidelines, databases, journals, email lists, regulations and policies which may help researchers to implement the 3Rs when planning research that may involve animals. The database is called 3R Guide. The aim of 3R Guide is to provide a 'one-stop shop' for researchers who need to gain an overview of available 3R resources	Alternatives-NIH-USA-ICCVAM	Animal Research Info AnimalResearch.info is an international collaboration of scientists and researchers. As expert contributors, we provide and edit the content, making it as accurate and up-to-date as possible.	3Rs-reduction- This site provides an interactive short course on experimental design for research scientists working with laboratory animals. The aim is to reduce the number of animals which are used, improve the quality of the science and save time, money and other scientific resources	Strategic planning flow chart-Frame poster	PILAS-Lab animal discusion forum stands for Perspectives in Laboratory Animal Science. It was set up in 2012 to provide a discussion forum, originally for students of veterinary science. Since then it has expanded to cover all aspects of laboratory animal science. The aim of PiLAS is to improve the quality of discussion about animal experimentation and alternative approaches, by offering scientists in all relevant fields an opportunity to share their expertise, knowledge and ideas concerning these and other issues raised by laboratory animal use.	Guidelines for "Good Scientific Practice"-The DFG recommendations for safeguarding good scientific practice, published in 1998, were used by the research community to initiate and formulate a system of self-regulation that found a general consensus. A comprehensive system of self-regulation was set up in every registered research institution based on these recommendations. An amendment and update to the recommendations was approved by the DFG's General Assembly on 3 July 2013.	International Council for Lab Animal Science (ICLAS)	The Biosciences Federation Animal Science Group: was established in December 2002 and launched in September 2003 as an umbrella organisation to promote interaction within the biosciences community, particularly in areas of research and teaching; to provide information to assist the formulation of scientific policy; and, perhaps most challenging of all, to debate the ethical issues surrounding recent advances in the biosciences (see previous report by Nancy Rothwell).
NORINA-NORINA (A Norwegian Inventory of Alternatives) is an English-language database containing information on over 3,500 audiovisual aids that may be used as alternatives or supplements to the use of animals in education and training, including dissection alternatives, at all levels from Junior School to University. The information in the database has been collected from 1991 onwards.	Alternatives to Animal Testing	European Medicines Agency (EMA-EUROPA)- The European Medicines Agency (EMA) is a decentralised agency of the European Union (EU), located in London. It began operating in 1995. The Agency is responsible for the scientific evaluation, supervision and safety monitoring of medicines developed by pharmaceutical companies for use in the EU.	Humane Endpoints website	Procedures with Care Website	Journal of Applied Animal Welfare Science (JAAWS) US journal, publishes articles, commentaries, and brief research reports on methods of experimentation, husbandry, and care that demonstrably enhance the welfare of all nonhuman animals	The Macaque Website a free resource for everyone who works with, or is interested in, laboratory macaques: animal care staff and technicians, facility managers, veterinarians, researchers, students, policy makers and IACUC/AWERB members. Developed by the UK's National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs), this site provides referenced information and practical guidance on the natural history and behaviour of macaques, their care and management in captivity, and ways to assess their welfare.	Laboratory Animal Veterinary Association (LAVA)	Guidelines from the British Psychological Society's Standing Advisory Committee on the Welfare of Animals in Psychology (developed in cooperation with the EPS)
Classic Audiovisual database-Norina The Classic AVs database complements NORINA by providing information on audiovisual products produced some years ago, using technology which has been surpassed by modern digital techniques. We offer this collection for those who wish to continue to use classic technology	Bibliography on Alternatives to Animal Testing (Altbib),	Medicines Evaluations Board-The Medicines Evaluation Board assesses and monitors the efficacy, risks and quality of human and veterinary medicines, and the safety of novel foods for human consumption. The MEB is an independent administrative body residing under the Government of the Netherlands. This entails that the MEB independently decides about the authorisation and monitoring of human medicinal products.	InVitro Jobs The internet platform for animal-free research ☐Research groups and scientific networking ☐Platform for jobs, theses and internships ☐News relating to in vitro and in silico research ☐Information about research funding	3Rs teaching and training-canadian	Animal Technology & Welfare Online. The official journal of the Institute of Animal Technology and of the European Federation of Animal Technologists (EFAT). Animal Technology and Welfare aims to be the medium for animal technologists and all those concerned with the care and welfare of animals used for research purposes to communicate 'best practice. ATW especially aims to promote and develop the 3Rs particularly in respect of Refinement. More importantly, ATW promotes the generally accepted '4th R', Responsibility. The responsibility that all animal technologists have in ensuring dissemination of 'best practice' to every institution using animals in research. ATW enjoys a unique position as the scientific publication for the leading organisations (IAT and EFAT) for the welfare of animals in research.	Procedures with Care Website This website provides a series of resources to support the adoption of best practice for commonly used procedures in animal research. The focus is on rats and mice since these are the most widely used animals. Further material will be added to expand the range of techniques and species in the future.	National Centre for the Replacement, Refinement & Reduction of Animals in Research (NC3Rs)	Nuffield Bioethics-The issues addressed in this Report have been a subject of intense public debate over at least the past four hundred years. Feelings are strong on all sides of the issues, and in recent years reports of violent action against those conducting animal research in the UK have brought the matter to the forefront of public attention.
NC3Rs experimental design assistant-Welcome to the Experimental Design Assistant, a free resource from the NC3Rs to support researchers in the planning of animal experiments - ensuring robust study design and reliable and reproducible findings. The EDA consists of a web application and a supporting website; benefits include: •The ability to build a stepwise visual representation of your experiment •Feedback and advice on your experimental plan •Dedicated support for randomisation, blinding and sample size calculation •Practical information to improve knowledge of experimental design •Improved transparency of your experimental design, allowing you to share and discuss your plan with colleagues and collaborators	CAAT-Europe (Centre of Alternatives to Animal Testing)	World Health Organisation-Drug statistics and methadology	NC3Rs: National Centre for Three Rs, UK	Species specific resources- Canadian 3Rs microsite		Searching for 3Rs Information - Published Literature Sources	The Royal Society for the Prevention of Cruelty to Animals (RSPCA)	Hastings center-Morals of medical research with animals-special report » Utility and Morality: Contemporary Tradeoffs The Moral Status of Invasive Animal Research By Bernard E. Rollin

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