

Special Issue

Implementing the 3Rs in Laboratory Animal Research— From Theory to Practice

Message from the Guest Editor

The principles of Replacement, Reduction, and Refinement (3Rs) are the framework that promotes the replacement of laboratory animals for non-sentient alternatives, the reduction of them to a minimum, and the refinement of experiments and their housing conditions to cause the minimum pain and distress. Efforts to refine and optimize the care and use of animals in research have been ongoing for many years and have led to general standardization of animals' housing, genetics, and health status. However, Replacement is still the most challenging of the 3Rs in terms of the technical and strategic nature of the research that is needed. This Special Issue invites original research and review papers that address any aspect of the 3Rs in laboratory animal research. Topics of special interest are the replacement, animal welfare, translation, ethics and regulation of animal models.

Guest Editor

Dr. Garikoitz Azkona

Department of Basic Psychological Processes and Their Development,
Euskal Herriko Unibertsitatea (UPV/EHU), Tolosa Hiribidea 70, 20018
Donostia, Spain

Deadline for manuscript submissions

closed (15 June 2023)



Animals

an Open Access Journal
by MDPI

Impact Factor 2.7

CiteScore 5.2

Indexed in PubMed



mdpi.com/si/106836

Animals

Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
animals@mdpi.com

[mdpi.com/journal/
animals](https://mdpi.com/journal/animals)





Animals

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



[mdpi.com/journal/
animals](http://mdpi.com/journal/animals)

About the Journal

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

Editor-in-Chief

Prof. Dr. Clive J. C. Phillips

Curtin University Sustainable Policy (CUSP) Institute, Curtin University, Kent St., Bentley, WA 6102, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PubAg, AGRIS, Animal Science Database, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q1 (Veterinary Sciences) / CiteScore - Q1 (General Veterinary)

