



## 60 Years of the Three Rs and Their Impact on Animal Welfare

Guest Editors:

**Prof. Dr. Vera Baumans**

Laboratory Animal Science  
Specialist, Department of  
Animals, Science and Society,  
Division Laboratory Animal  
Science, Utrecht University, 3584  
CS Utrecht, The Netherlands

**Dr. Penny Hawkins**

Animals in Science Department,  
RSPCA, Wilberforce Way,  
Southwater, West Sussex RH13  
9RS, UK

**Dr. Paulin Jirkof**

Department of Animals welfare,  
Zurich University, CH-8057  
Zurich, Switzerland

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submissions:  
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### Message from the Guest Editors

Laboratory animals are used for many scientific purposes, including ‘basic’ biology, safety testing, and medical and veterinary research. The ethical and animal welfare concerns associated with animal use are widely recognized, and investment into humane alternatives is increasing, but full replacement is currently impossible and over 100 million animals per year are used globally.

Laboratory animal science, a multidisciplinary branch of science contributing to the quality of animal experiments and to laboratory animal welfare, began in the 1950s. Growing recognition that animals are not just ‘research tools’, and better welfare means better science, led to the concept of the Three R’s—replacement, reduction, and refinement—defined by Russell and Burch in 1959. This year we celebrate the 60th anniversary of the Three Rs!

We invite submissions on current good-practice and/or evaluation studies, as well as articles reviewing Three Rs achievements in specific areas, or taking a forward look, in any research field or species. Submissions on ethical implications of the Three Rs, and concepts such as the culture of care, are also welcome.





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## Editor-in-Chief

### Prof. Dr. Clive J. C. Phillips

1. Curtin University Sustainable Policy (CUSP) Institute, Curtin University, Kent St., Bentley, Western Australia 6102, Australia  
2. Former Foundation Professor of Animal Welfare, University of Queensland and Foundation Director, Centre for Animal Welfare and Ethics, University of Queensland, Brisbane, Australia

## Message from the Editor-in-Chief

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## Contact Us

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*Animals* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

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